

ESO 371

A Guide to the Use and Understanding
of the Ohio Crop Model

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Preface

This document is intended to serve the following purposes: 1) to provide a brief description for persons desiring to become competent users or administrators of the model, 2) to provide some warning concerning limitations of the model, and 3) to explain the procedures both for modifying the data stored internally in the model and for running the computer model. It is hoped that this article will make it easier for new users to tackle the problem of becoming acquainted with this large computer model and its capabilities.

This article supplements material listed in the Annotated Bibliography. These references describe the original model from which the Ohio Crop Model was adapted. References 3 and 4 in the Annotated Bibliography provide a starting place for new users. In addition, references 1 and 6 contain detailed explanations of the program. The purpose of this article is to supplement these general and detailed references in order to better familiarize the Ohio user with the model. The capabilities of the model are fairly well documented elsewhere (see reference 1 in Annotated Bibliography); however, some of the limitations have not been documented.

The capabilities of most computer models, once designed, are not easily changed. This model is no exception in this regard. However,

*The authors are indebted to Bruce McCarl, Department of Agricultural Economics, Purdue University, and David Debertin, Department of Agricultural Economics, University of Kentucky, for their advice and assistance in modifying the original program, "Purdue Top Farmer Cropping Model."

considerable flexibility has been built into the model for allowing user data changes.

The structure of the model is a linear programming model which organizes the grain farm's activities in order to maximize profits. It is suggested that the user accept this structure as it is now designed. Future modifications of the structure are possible, but considerable costs would be incurred.

Model Description

The Ohio Crop Budget model has been operational at Ohio State since January 1976. The model was originally developed by the Department of Agricultural Economics at Purdue for the purpose of aiding decision making among grain crop alternatives. It was and is used extensively for extension education purposes. The first use of the model in Ohio was for research to examine minimum tillage systems on different Ohio soils and to investigate optimal farm organization under ranges of output and input prices. This research also served the purpose of verifying that the model is operational. Extension programs using the program are now being planned.

The model is formulated so that a user can compare two farm plans. One of the farm plans represents the optimum organization and operation of the farm given resource limitations imposed by the user. For example, the farmer may restrict farm size, labor availability, types of crops grown, field conditions, and so forth. Besides resource restrictions, the user may modify the operational efficiencies. For example, the farmer may enter his operating efficiency (e.g. harvesting acres per hour) for various field operations.

The second type of farm plan represents the farmer's "present farm plan." The present farm plan forces the linear programming algorithm to

yield the user's specified farm plan, but sequences the field operations to achieve maximum profits.

The output of the model allows a comparison of the costs and returns between the optimal farm plan and the present farm plan. The output also gives a summary of land use, yields, and income, schedules of field operations, and schedules of labor and tractor utilization for the optimal farm plan. Shadow prices for restricted resources are also printed out to provide valuable information for decision making.

Model Limitations

Any model of the real world will fail to completely represent the intended situation. This model's weaknesses center around (1) the assumption of fixed proportions among several variable inputs, (2) the incapacity to accurately separate field preparation activities into fall and spring sequences, (3) the interpretation of restricted resources, and (4) the questionable restrictions which post planting operations may place on the organization of the farm. However, these weaknesses are far overshadowed by the model's strengths in representing the farm's organization and operation.

The variable inputs which are assumed in fixed proportions include fertilizer, seed, field operations, and drying capacity. Essentially all inputs which are variable in the production of a crop are assumed to be used in fixed proportions. Of course, actual field operations do not combine these inputs in fixed proportions. Fertilizer rates, field equipment sizes, and drying capacity may be varied by the operator. The model in no way investigates the optimal proportions of these resources. Optimum combinations of inputs and the corresponding results in terms of yield for alternative crops must be determined outside the model.

An associated problem is that all land, including rented land, is

considered to be a homogeneous resource. Thus the fixed proportions of resources mentioned above are applied over all land regardless of actual quality.

A second weakness results from the fact that the model lumps together all field preparation necessary for planting corn and soybeans into single activities. Therefore, it is not possible to have fall plowing and spring disking although it is nearly mandatory on certain Ohio soils. The model uses all the available time for the conglomerate land preparation activity. Thus, when an hour of land preparation is used, the model actually plows, fits, cultivates, etc. as many acres as possible. This feature is contrary to how a farmer operates in that a farmer would plow several acres, then disc several acres when the time was right, etc. Except for the importance of timing and fall plowing, this aggregation of activities is not a terribly discomfoting formulation of the model. The preparation and planting schedule may closely resemble many farmers' scheduling sequence in spite of the aggregation of field operations in a model. Several constraints in the model are used to force land preparation for corn and soybeans to occur before or during the planting period. These constraints are labeled "land reconciliation" constraints.

Wheat production is handled with much less detail than corn or soybeans in the model. There are few activities in the model relating to wheat production. All resource requirements for an acre of wheat production, including land preparation resource requirements, are aggregated into the wheat production activities.

The model is built to direct attention at critical periods of the farming operation. Corn and soybean activities are set up in a consistently similar fashion throughout the model. Each is split into the 18

separate activities necessary to allow planting in one of six planting periods and harvesting in one of three harvesting periods. This allows for yield variations due to different planting and harvesting periods. These yield reductions, often called timeliness penalties, are built into the model in order to point out the benefits of correct timing in planting operations and particularly early planting for corn and soybeans.

Care must always be taken in interpreting the output of computer models. In this case, special care must be taken in interpreting the shadow prices for the field hours during these early planting periods. The value per additional unit (if one could somehow acquire one more unit of time at no charge) can be unreasonably high in this particular model. The reason for this stems from the fact that although an extra hour of planting time during a particular period is very valuable, planting in the next period may also be very profitable but unrestricted by planting hours available. The shadow price for the latter period in this case will be zero even though an hour of planting time is quite valuable. The actual value of an hour of time in one period should be the difference between the shadow price for an hour of planting time in that period and the net returns to an hour of planting time in the final plan time period. In most cases the income lost by waiting one more week to plant will be considerably less than the shadow price for planting hours indicated.

The fourth weakness in the model is due to the incorporation of the most planting operations into the planting-harvesting activities. If several post planting operations are called for, the restrictions on time and labor may become so binding that all operations cannot be carried out, thus prohibiting planting. Thus, whether the computer plants or not may

in some situations hinge on the number of cultivations called for in the data. This tends to be somewhat contrary to actual farmer behavior in that farmers may operate in such a way that if they have time to cultivate twice, they will, but if they run out of time, once may be often enough.

Making Permanent Data Changes

The following steps should be taken to make changes in the permanent data stored in the computer as "our plan":

1. Find in the input form the external cell number for the data which will be changed. (The cell numbers listed in the input form are called "external" because they are external to the program. The program changes the order of the data after reading it. The data are referred to by "internal" cell numbers throughout the program.)

2. Find the internal cell number corresponding to the external cell number for the data which will be changed. Use the external to internal cell number conversion table found in Section XII of "Purdue Top Farmer Cropping Model B-9: Computer Program Documentation."

3. Change the card in the INPUT subroutine which contains the data element corresponding to the correct internal cell number. Internal cell number elements are found by counting the elements from the beginning of the DATA cards for PB1, PB2, PB3, etc. near the beginning of the subroutine. The internal cell number for the first element of each card is typed to the right of the card in the card listing of Appendix B.

Example:

The following shows the procedure for changing the corn yield for the April 26 - May 2 planting and September 27 - October 17 harvesting period. The present data shows a corn yield of 110 bushels per acre. This

procedure will change the yield to 150 bushels/acre for that period.

Step 1: The external cell number for that data element found in the input form is 51.

Step 2: Internal cell number 71 corresponds to external cell number 51.

Step 3: The 3rd data element of the card with sequence number JES24 11 is the 71st internal cell number element corresponding to the corn yield for the periods specified in this example (appendix B, p. 1). This card must be repunched with 110 replaced by 150. (Other examples of internal cell number location: the 257th internal cell number element is the first data element of Card JES24 39; the 528th internal cell number element is the fourth data element of JES24 79, etc.)

After all such changes have been made, the program which places the model on tape must be run. The model placed on tape will then contain the new data which can only be changed permanently by the method specified above. (Of course, individual farmers change the data used in the model temporarily with each run).

The data can and should be verified by making a run with no farmer data changes (i.e., accepting the entire "our plan"). The data listing at the end of the output is listed in external cell number order which corresponds to the input form cell number order. This allows an easy check for errors in attempts to change data.

One problem will arise if the program which places the model on tape is run more than once in a short period of time (approximately 24 hours). The program will function properly for the first run, but will not execute for the subsequent runs. The disposition parameter (page 34 of Appendix B) must be changed to (OLD, KEEP) for runs after the first. This change will insure proper execution of all runs after the first run. The first run

always uses a disposition parameter of (NEW, KEEP).

Data Handling Capabilities

The data deck punched from an input form filled out by the farmer is the only record kept for that farmer. The computer combines that information with the permanent data known as "our plan" and produces a temporary data file which is destroyed upon completion of the computer output for that farmer. Changes in data for subsequent runs made by the farmer can be implemented simply by using the original deck, adding the cards necessary for the changes to the end of that deck and resubmitting this new deck. The last data read for a particular cell number is used in the model.

The first seven columns of each data card for the farmer input data are generally the same (see page 41 of reference #6 in annotated bibliography). There is no particular significance or coding requirement for this seven column field. However, it would be a good policy to allow the first three columns to represent the "our plan" under which the data was initially run. The present "our plan" data series is B92. As the "our plan" data is revised it would be wise to change this number. The remaining four columns should be used to assign specific numbers to each individual farmer. This would allow an easy filing system for saving farmer data and for updating farmer data if the model is used in an extension context.

One particular capability which is not being used at present at Ohio State is that of using several different sets of "our plan" values. The model is built to allow up to three different sets of default values. The first card of a data deck can specify 0, 1, or 2 in column 70. (A blank or any other number will be converted to 0). If a 0 is specified, the data stored permanently in the computer program as "our plan" will be used.

If either a 1 or 2 is specified in column 70, a different set of data can be read in and used for "our plan" values. (For specific details see the beginning section of the INPUT subroutine in the matrix generator program.)

The additional "our plan" files could be developed and stored on tape or disc. These files could then be accessed using the appropriate JCL. The files would be stored independently of the main program but would be on-line at all times.

This capability allows development of up to three plans for a) different regions of the state, b) different size farms, or c) different types of farms (part-time, full-time, farms with livestock), etc. This would require development of different input forms with the correct "our plan" values also.

Batch Processing System Information

The original program at Purdue consisted of three distinct steps: the matrix generator, the linear program solver, and the report writer. The Ohio Crop Budget computer implementation of these steps differs from the Purdue implementation because of computer system differences and the need to reduce computer costs. For the casual user, the three steps above are sufficient for an understanding of the system. However, the following explanation is necessary for making changes or for a more complete understanding of the model.

The matrix generator produces the model specifications in the proper form for the linear programming algorithm. Some modifications in the matrix generator were made because of the differences between the MPS/360 algorithm used in the Ohio Crop Budget model and the linear program solver Purdue uses. The output form from MPS/360 is different from that of the

Purdue linear program solver also, so modifications in the report writer were also necessary. In addition, because of a problem of communication between the MPS/360 program and the FORTRAN programs composing the report writer a small PL/1 program was written as an interface between the MPS/360 program and the report writer programs. Documentation for these changes is somewhat lacking; however, a program listing is provided in Appendix B. In summary, computer implementation for the Ohio Crop Budget consists of four steps: the modified matrix generator, the MPS/360 linear program solver, the PL/1 interface between MPS/360 and the FORTRAN programs of the report writer, and the modified report writer.

In order to conserve computer money, three of these four program segments are stored in load module form (compiled and link edited) on tape. The MPS/360 segment is not stored because of the additional space necessary to store this and because it can be called easily from the system. Thus all that is needed to run the program is the data and a small driver deck which calls the program segments from the tape and executes them. Appendix A contains a listing of the driver deck.

One warning is in order. The driver deck first transfers the programs from the tape to a disk in the system. A specific disk number is needed and the present deck uses VOL=77. At peak times during the quarter it is possible that this disk will not have room for the program, so an alternate volume number must be used. Two possible volume numbers are VOL=75 and VOL=85. The volume number must be changed in three places in the main program and one place for each farm's data. Thus for the listing in Appendix A, there are six cards to change (they are noted). This situation has never arisen while using the program, yet under certain situations it is a possibility.

The IRCC computer system limits the number of farm plans which can be run in one program. Changing the job class from B to C will not relax this limitation. One program will allow six or seven farm plans when the computer system is not being used heavily. However, it is recommended that one program should compute no more than five farm plans in a single run. In an extension workshop setting it is possible to repeatedly submit the driver deck with different data in order to compute the large number of farm plans. It might be necessary in this situation to use different VOL numbers and submit data using two or more decks.

One further note must be made. Two special cards precede each farm's data. The second card never changes, but the first one must be modified and different than any other "first card." A good rule to follow is that the first "first card" contain "//ST1 etc.," the second "first card" contain "//ST2 etc.," the third "first card" contain "//ST3 etc.," and so forth.

At present, the costs for running the program are as follows: it costs approximately \$3.00 in overhead to get the program set up and approximately \$7.00 per farm plan.

Present Files and Records

The programs are stored on a tape which is sloted at the IRCC under

REEL # CFP01

SLOT # L179

PROJECT # ABK080

In addition, the cards which put the program on tape are stored unaltered in three well labeled boxes and the cards which must be compiled and executed with data are stored in three well labeled boxes as a back up.

Annotated Bibliography of Relevant Articles

1. Lars Brink, Howard Doster, and Bruce McCarl, "Methods and Procedures of the Purdue Top Farmers Cropping Model B-9: An Administrator's Guide," Purdue Agricultural Experiment Station Bulletin.

This article is a nicely detailed and documented report having great value as an administrator's guide. It is highly recommended for persons who work with farmers using the Ohio Crop Budget (Model B-9) and for farmers who are highly interested in the procedures used in modeling their own situations. It is non-technical in nature in that it has no computer language but it relies quite heavily on the cell numbers used in the input form for the model. It discusses input data cell by cell and it provides a useful guide to the discussion of input data by cell number. It tells in detail how the input data is used and it discusses in detail the major resource restrictions and activities of the model. It also discusses some of the assumptions, capabilities, and limitations of the model. However, it does not discuss some of the activities and restrictions necessary for modeling the actual farm situation (for example, the land reconciliation activities which force corn land to be prepared before being planted).

2. Candler, Wilfred, Michael Boehlje, and Robert Saathoff, "Computer Software for Farm Management Extension," American Journal of Agricultural Economics, Vol. 52, No. 1, February 1970.

This is a non-technical article which provides insights into the development and use of computers for extension purposes. It contains information on experience which is valuable in the development and implementation of computer applications in an extension context. There is no information here of value for either administering or using the Ohio Crop Model.

3. Doster, Howard, and Bruce McCarl, Model B-9 Input Form. Purdue Extension Circular EC-447, July 1975.

This is the input form which farmers fill out so their data can be keypunched.

4. McCarl, Bruce A., Wilfred V. Candler, D. Howard Doster, and Paul R. Robbins, "Purdue Top Farmer Automatic Crop Budget: Design, Application and Experience," Department of Agricultural Economics, Purdue University.

This article contains a history of the model development including the conceptualization of the entire model. It contains a good overview of the model with few specifics to bog one down. It should be studied before designing an extension model because it contains much of the rationale for the development for the model as it is now. It discusses the man-machine interfaces, the workshop format and some of the experiences resulting from farmer use.

5. McCarl, Bruce A., W. V. Candler, D. H. Doster, and P. R. Robbins, "Experience with Mass Audience Linear Programming for Farm Planning," Department of Agricultural Economics, Purdue University.

This article is almost entirely contained in article number 4 above which is a more encompassing article.

6. McCarl, Bruce and Jeurene Falck, "Purdue Top Farmer Cropping Model B-9: Computer Program Documentation," Purdue Agricultural Experiment Station Bulletin 98.

This article contains the computer program listings and documentation along with specific computer implementation comments. It also contains an input form listing and external to internal (and vice versa) cell number conversion tables. The article is only useful for answering specific computer formulation questions and then a reading knowledge of FORTRAN is required.

APPENDIX A

Note: The following is a complete listing of the driver deck for the model stored on tape. The listing shows the proper placement of data for three farms.

```

// 25000,CLASS=B
// *SETUP UNIT=TAPE9,ID=(CFP01,L179,READ)
// BWSO SW PROC VOL=77
// S5 EXEC PGM=B9,TIME=(,3)
// STEPLIB DD DSN=UKU.0AEC01.LOAD,UNIT=3330,
// VOL=SER=IRCC&VOL,DISP=SHR
// FT01F001 DD DSN=001,SPACE=(1330,(100,10)),DISP=(NEW,PASS),
// UNIT=SYSDA,DCB=(RECFM=FB,LRECL=133,BLKSIZE=1330)
// FT02F001 DD DUMMY
// FT06F001 DD SYSOUT=A
// FT07F001 DD DSN=007,SPACE=(800,(100,10)),DISP=(NEW,PASS),
// UNIT=SYSDA,DCB=(RECFM=FB,LRECL=80,BLKSIZE=800)
// FT08F001 DD DSN=008,SPACE=(800,(100,10)),DISP=(NEW,PASS),
// UNIT=SYSDA,DCB=(RECFM=FB,LRECL=80,BLKSIZE=800)
// SLP GO EXEC PGM=EXECUTOR,TIME=(,8)
// ETA1 DD UNIT=SYSDA,SPACE=(CYL,(1,1))
// MATRIX1 DD UNIT=SYSDA,SPACE=(CYL,(1,1))
// PRODFILE DD UNIT=SYSDA,SPACE=(CYL,(1,1))
// SCRATCH1 DD UNIT=SYSDA,SPACE=(CYL,(1,1))
// SCRATCH2 DD UNIT=SYSDA,SPACE=(CYL,(1,1))
// STEPLIB DD DSN=SYS4.PROGLIB,DISP=SHR
// SYSLCP DD DSN=000CP,DISP=(OLD,PASS)
// SYSPRINT DD DSN=000A,SPACE=(TRK,(20,5)),DISP=(NEW,PASS),
// UNIT=SYSDA,DCB=BLKSIZE=133
// FILE7 DD DSN=007,DISP=(OLD,DELETE),
// UNIT=SYSDA,DCB=(RECFM=FB,LRECL=80,BLKSIZE=800)
// FILE8 DD DSN=008,DISP=(OLD,DELETE),
// UNIT=SYSDA,DCB=(RECFM=FB,LRECL=80,BLKSIZE=800)
// ST EXEC PGM=CHANGE,TIME=(,2)
// STEPLIB DD DSN=UKU.0AEC01.LOAD,UNIT=3330,
// VOL=SER=IRCC&VOL,DISP=SHR
// SYSPRINT DD SYSOUT=A
// MPSOUT DD DUMMY,DCB=BLKSIZE=133
// A DD DSN=000A,DISP=(OLD,DELETE),UNIT=SYSDA
// B DD DSN=000B,SPACE=(TRK,(10,1)),DISP=(NEW,PASS),UNIT=SYSDA,
// DCB=(RECFM=FB,LRECL=133,BLKSIZE=1330)
// S8 EXEC PGM=B91,REGION=252K,TIME=(,3)
// STEPLIB DD DSN=UKU.0AEC01.LOAD,UNIT=3330,
// VOL=SER=IRCC&VOL,DISP=SHR
// FT01F001 DD DSN=001,DISP=(OLD,DELETE),UNIT=SYSDA,
// DCB=(RECFM=FB,LRECL=133,BLKSIZE=1330)
// FT02F001 DD DSN=002,DISP=(OLD,DELETE),UNIT=SYSDA,
// DCB=(RECFM=FB,LRECL=133,BLKSIZE=1330)
// FT03F001 DD DUMMY
// FT06F001 DD SYSOUT=A
// PEND
// SM4 EXEC PGM=OEHMOVE,TIME=(,2)
// STEPLIB DD DSN=SYS1.JOBLIB,DISP=SHR
// SYSPRINT DD SYSOUT=A
// DISK DD UNIT=3330,VOL=SER=IRCC77,DISP=OLD
// TAPE DD UNIT=TAPE9,VOL=SER=CFP01,DISP=OLD
// SYSUT1 DD UNIT=SYSDA,SPACE=(CYL,(1,1))
// SYSIN DD *
// COPY PDS=UKU.0AEC01.LOAD,TODD=DISK,TO=3330=IRCC77,
// FROMDD=TAPE,FROM=TAPE9=(CFP01,1)
// *
// SLP EXEC PGM=COMPTLER,TIME=(,2)
// SCRATCH1 DD UNIT=SYSDA,SPACE=(CYL,(1,1))
// SCRATCH2 DD UNIT=SYSDA,SPACE=(CYL,(1,1))
// SCRATCH3 DD UNIT=SYSDA,SPACE=(CYL,(1,1))

```

1

Change this card if volume 77 is unavailable.

Change this card if volume 77 is unavailable.

X Change this card if volume 77 is unavailable

```
//SCRATCH4 DD UNIT=SYSDA,SPACE=(CYL,(1,1))
//STEPLIB DD DSN=SYS4.PROGLIB,DISP=SHR
//SYSMLCP DD UNIT=SYSDA,SPACE=(CYL,(1,1)),DISP=(,PASS),DSN=EE&LCP
//SYSPRINT DD SYSOUT=A
//SYSIN DD *
```

2

```
PROGRAM
INITIALZ
MOVE(XDATA,'MATRIX')
MOVE(XPNAME,'B9PROB')
CONVERT('FILE','FILE7')
SETUP('BOUND','B')
MOVE(XOBJ,'7000001')
MOVE(XRHS,'R')
PRIMAL
SOLUTION
MOVE(XOLDNAME,'B9PROB')
REVISE('FILE','FILE8')
SETUP('BOUND','B')
PRIMAL
SOLUTION
EXIT
PEND
```

```
/*
//ST1 EXEC PROC=BWSCSW,VOL=77 Change this card if volume 77 is unavailable.
//S5.FT05F001 DD *
```

PLACE DATA FOR THE FIRST FARMER HERE.

```
//ST2 EXEC PROC=BWSCSW,VOL=77 Change this card if volume 77 is unavailable.
//S5.FT05F001 DD *
```

PLACE DATA FOR THE SECOND FARMER HERE.

```
//ST3 EXEC PROC=BWSCSW,VOL=77 Change this card if volume 77 is unavailable.
//S5.FT05F001 DD *
```

PLACE DATA FOR THE THIRD FARMER HERE.

```
/*
//
```

```
// 12000,CLASS=C
/*SETUP UNIT=TAPE9,ID=(CFP01,L179,WRITE)
//S1 EXEC FTG1CL,PARM.FORT=BCD,TIME=(0,20)
//FORT.SYSIN DD *
```

```
COMMON R%600<,IADJ,WORK%50<,BIG
DIMENSION HEAD%10<
REAL*8 IDENT
IADJ#1
```

```
CALL START%1<
CALL INPUT%IDENT,HEAD,MAX<
CALL RNTLND
CALL HIRLAB
CALL PREP%0<
CALL CORNBN%1<
CALL PREP%1<
CALL CORNBN%2<
CALL WHEAT
CALL STORED
CALL SILAGE
CALL DOUBLE
CALL CUSTOM
CALL BCCOMB
CALL RESERV
CALL HARVES
```

```
CALL ARTSIL
CALL RHS1
CALL FINISH%1<
IADJ#2
```

```
CALL START%2<
CALL RNTLND
CALL RHS1
CALL FINISH%2<
```

```
601 R%34<#R%34</1000.
WRITE%1,601< IDENT,%HEAD%I<,I#1,10<,MAX
FORMAT %A7,10A4,I5<
WRITE%1,602< %R%I<,I#1,MAX<
```

```
602 FORMAT%8F16.2<
STOP
END
```

```
SUBROUTINE INPUT%IDENT,HEAD,MAX<
```

```
COMMON R,IADJ,WORK%50<,BIG
DIMENSION R%600<,PB%600<
DIMENSION PB1%136<,PB2%134<,PB3%134<,PB4%134<,PB5%27<
EQUIVALENCE %PB%1<,PB1%1<<,%PB%137<,PB2%1<<,%PB%271<,PB3%1<<,%PB%405<,PB4%1<<,%PB%539<,PB5%1<<
```

```
DIMENSION HEAD%10<
REAL*8 IDENT
```

```
DATA PB1
```

		/	1.00,	500.00,	0.00,	100.00,	0.00,	
1	0.00,	0.00,	0.00,	0.00,	0.00,	0.00,	0.00,	
2	0.00,	20.00,	14.75,	0.00,	0.00,	0.00,	0.00,	
3	0.00,	0.00,	0.00,	0.00,	0.00,	0.00,	0.00,	
4	0.00,	600.00,	80.00,	0.00,	86.00,	100.00,	50.00,	
5	82.00,	0.00,	0.00,	0.00,	0.00,	0.00,	0.00,	
6	0.00,	0.00,	0.00,	0.00,	999.00,	999.00,	999.00,	
7	0.00,	1.10,	2.00,	0.00,	0.00,	2.00,	2.00,	
8	4.80,	4.80,	2.10,	5.00,	14.00,	.08,	300.00,	
9	300.00,	16.00,	.16,	.00,	1.00,	8000.00,	0.00,	
*			4.00,	.80,	110.00,	24.00,	12.50,	
1	55.00,	11.00,	7.00,	8.00,	108.00,	19.00,	12.50,	
2	55.00,	11.00,	7.00,	8.00,	103.00,	18.00,	12.50,	

MAIN	2
JES21	1
MAIN	3
MAIN	4
MAIN	5
JES21	2
MAIN	7
MAIN	8
MAIN	9
MAIN	10
MAIN	11
MAIN	12
MAIN	13
MAIN	14
MAIN	15
MAIN	16
MAIN	17
MAIN	18
MAIN	19
MAIN	20
JES	1
MAIN	21
MAIN	22
MAIN	23
MAIN	24
MAIN	25
MAIN	26
MAIN	27
JES21	3
JES21	4
JES21	5
JES21	6
JES21	7
MAIN	28
MAIN	29
JES21	1
INPUT	2
INPUT	3
CHNG	10
CHNG	20
CHNG	30
INPUT	4
CHNG	40
JES24	1
JES24	2
JES24	3
JES24	4
JES24	5
JES24	6
JES24	7
JES24	8
JES24	9
JES24	10
JES24	11
JES24	12
JES24	13

Internal Cell Numbr
of each card

1
6
13
20
27
34
41
48
55
62
69
74
81

APPENDIX B

Note: The following is a complete listing of the program which places the model on tape. The listing contains the original Purdue University code which can be translated into easily readable FORTRAN code by using the following code conversion table:

Purdue Code

%
<
@
&

FORTRAN Code

=
(
)
'
+

3	0.00,	1.00,	1.00,	0.00,	2.17,	2.17,	2.40,	JES24	74	490
4	3.25,	3.25,	2.20,	4.50,	4.50,	2.75,	1.67,	JES24	75	497
5	1.67,	5.00,	5.00,	3.00,	1.67,	1.67,	2.00,	JES24	76	504
6	4.00,	0.00,	0.00,	0.00,	0.00,	2.80,	0.00,	JES24	77	511
7	34.00,	12.00,	0.00,	5.00,	45.00,	40.00,	29630.00,	JES24	78	518
8	14.00,	4.24,	3.86,	100.00,	4.26,	2.68,	38.00,	JES24	79	525
9	1.00,	2.68,	0.00,	20.00,	13.00,	6.50,	14.00/	JES24	80	532

DATA PB5 /								JES24	81	539
1	0.00,	6.70,	0.00,	0.00,	1.16,	0.00,	0.00,	JES24	82	543
2	0.00,	600.00,	575.00,					JES24	83	550
*				.24,	.12,	999.00,	0.00,	JES24	84	553
1	0.00,	600.00,	0.00,	13.00,	0.00,	86.00,	0.00,	JES24	85	557
299999.00,99999.00/								JES24	86	564

MAX#565
BIG#999999.

IB#1

DO 1 I#1,MAX

1 R%I<#BIG

READ%5,300< IDENT,%HEAD%I<,I#1,10<,IBASE

300 FORMAT%A7,10A4,22X,I1<

WRITE %6,301< IDENT,%HEAD%I<,I#1,10<,IBASE

301 FORMAT %@1@,A7,10A4,22X,I1<

IBASE#IBASE&1

IBASE1#2

IF%IBASE.LE.0.OR.IBASE.GT.3< IBASE#1

GO TO %1001,1002,1003<,IBASE

C IOWA BASE

1002 READ%IBASE1,1004< %PB%I<,I#1,563<

GO TO 1001

C ILLINOIS BASE

1003 CONTINUE

READ%IBASE1,1004< %PB%I<,I#1,563<

READ%IBASE1,1004< %PB%I<,I#1,563<

C REGULAR PURDUE BASE

1001 CONTINUE

1004 FORMAT%5E16.8<

CALL TRANS

7 DO 18 I#1,11

GO TO%8,9,10,11,12,13,14,15,16,81,82<,I

C PLANTING TIME

8 K#345

I1#346

I2#351

GO TO 17

C NUMBER OF GOOD DAYS

81 K#305

I1#306

I2#320

GO TO 17

C HOURS PER DAY

82 K#325

I1#326

I2#340

GO TO 17

C FULL TIME MEN

9 K#352

I1#353

I2#362

GO TO 17

10 I1#385

JES24	74	490
JES24	75	497
JES24	76	504
JES24	77	511
JES24	78	518
JES24	79	525
JES24	80	532
JES24	81	539
JES24	82	543
JES24	83	550
JES24	84	553
JES24	85	557
JES24	86	564
JES15	4	
INPUT	91	
INPUT	92	
INPUT	93	
INPUT	94	
CHNG	50	
JES4	3	
CHNG	60	
CHNG	70	
JES4	2	
JES4	4	
JES4	5	
JES4	6	
JES4	7	
JES4	8	
JES4	9	
JES4	10	
JES4	11	
JES4	12	
JES4	13	
JES4	14	
JES4	15	
JES4	16	
INPUT	97	
INPUT	98	
INPUT	99	
JES8	1	
INPUT	100	
INPUT	101	
INPUT	102	
INPUT	103	
JES8	2	
INPUT	104	
INPUT	105	
INPUT	106	
INPUT	107	
JES8	3	
INPUT	108	
INPUT	109	
INPUT	110	
INPUT	111	
JES8	4	
INPUT	112	
INPUT	113	
INPUT	114	
INPUT	115	
INPUT	116	

3	55.00,	11.00,	7.00,	8.00,	107.00,	26.00,	12.00,	JES24	14	88
4	55.00,	11.00,	7.00,	8.00,	105.00,	21.00,	12.00,	J5S24	15	95
5	55.00,	11.00,	7.00,	8.00,	100.00,	19.00,	12.00,	JES24	16	102
6	55.00,	11.00,	7.00,	8.00,	102.00,	28.00,	12.00,	JES24	17	109
7	55.00,	11.00,	7.00,	8.00,	100.00,	23.00,	12.00,	J5S24	18	116
8	55.00,	11.00,	7.00,	8.00,	96.00,	20.00,	12.00,	JES24	19	123
9	55.00,	11.00,	7.00,	8.00,	0.00,	30.00,	12.00/	JES24	20	130
DATA PB2		/	55.00,	11.00,	7.00,	8.00,		JES24	21	137
1	95.00,	26.00,	12.00,	55.00,	11.00,	7.00,	8.00,	JES24	22	141
2	91.00,	22.00,	12.00,	55.00,	11.00,	7.00,	8.00,	JES24	23	148
3	0.00,	32.00,	11.50,	55.00,	11.00,	7.00,	8.00,	JES24	24	155
4	89.00,	30.00,	11.50,	55.00,	11.00,	7.00,	8.00,	JES24	25	162
5	85.00,	25.00,	11.50,	55.00,	11.00,	7.00,	8.00,	JES24	26	169
6	0.00,	27.00,	10.50,	55.00,	11.00,	7.00,	8.00,	JES24	27	176
7	80.00,	25.00,	10.50,	55.00,	11.00,	7.00,	8.00,	JES24	28	183
8	76.00,	22.00,	10.50,	55.00,	11.00,	7.00,	8.00,	JES24	29	190
9	0.00,	18.40,	10.00,	12.75,	5.00,	13.00,	0.00,	JES24	30	197
#				18.40,	10.00,	12.75,	5.00,	JES24	31	204
1	13.00,	0.00,	18.40,	10.00,	12.75,	5.00,	13.00,	JES24	32	208
2	39.00,	18.40,	10.00,	12.75,	5.00,	13.00,	40.00,	JES24	33	215
3	18.40,	10.00,	12.75,	5.00,	13.00,	31.00,	18.40,	JES24	34	222
4	10.00,	12.75,	5.00,	13.00,	38.00,	18.40,	10.00,	JES24	35	229
5	12.75,	5.00,	13.00,	38.00,	18.40,	10.00,	12.75,	JES24	36	236
6	5.00,	13.00,	30.00,	18.40,	10.00,	12.75,	5.00,	JES24	37	243
7	13.00,	31.00,	18.40,	10.00,	12.75,	5.00,	13.00,	JES24	38	250
8	36.00,	18.40,	10.00,	12.75,	5.00,	13.00,	27.00,	JES24	39	257
9	18.40,	10.00,	12.75,	5.00,	13.00,	0.00,	18.40/	JES24	40	264
DATA PB3		/	10.00,	12.75,	5.00,	13.00,		JES24	41	271
1	35.00,	18.40,	10.00,	12.75,	5.00,	13.00,	26.00,	JES24	42	275
2	18.40,	10.00,	12.75,	5.00,	13.00,	0.00,	18.40,	JES24	43	282
3	10.00,	12.75,	5.00,	13.00,	30.00,	18.40,	10.00,	JES24	44	289
4	12.75,	5.00,	13.00,	23.00,	18.40,	10.00,	12.75,	JES24	45	296
5	5.00,	13.00,	1.00,	4.50,	6.50,	2.10,	2.10,	JES24	46	303
6	2.70,	2.70,	3.30,	3.30,	3.30,	16.60,	7.00,	JES24	47	310
7	10.90,	10.20,	9.90,	5.00,	1.00,	1.00,	1.00,	JES24	48	317
8	1.00,	1.00,	9.00,	9.00,	12.00,	12.00,	12.00,	JES24	49	324
9	12.00,	12.00,	12.00,	12.00,	12.00,	10.00,	10.00,	JES24	50	331
#				10.00,	10.00,	10.00,	1.00,	JES24	51	338
1	0.00,	0.00,	0.00,	1.00,	1.00,	1.00,	1.00,	JES24	52	342
2	1.00,	1.00,	1.00,	1.00,	1.00,	1.00,	1.00,	JES24	53	349
3	1.00,	1.00,	1.00,	1.00,	1.00,	1.00,	1.00,	JES24	54	356
4	1.00,	1.00,	1.00,	1.00,	1.00,	1.00,	1.00,	JES24	55	363
5	1.00,	1.00,	1.00,	1.00,	1.00,	1.00,	1.00,	JES24	56	370
6	1.00,	1.00,	1.00,	1.00,	1.00,	1.00,	1.00,	JES24	57	377
7	1.00,	1.00,	1.00,	1.00,	1.00,	1.00,	1.00,	JES24	58	384
8	1.00,	1.00,	1.00,	1.00,	1.00,	1.00,	1.00,	JES24	59	391
9	1.00,	1.00,	1.00,	1.00,	1.00,	1.00,	1.00/	JES24	60	398
DATA PB4		/		1.00,	1.00,	1.00,		JES24	61	405
1	0.00,	0.00,	1.00,	.67,	2.00,	2.00,	4.00,	JES24	62	409
2	4.00,	1.00,	1.00,	1.00,	1.00,	0.00,	0.00,	JES24	63	416
3	1.00,	1.00,	0.00,	0.00,	1.00,	0.00,	1.00,	JES24	64	423
4	0.00,	1.00,	1.00,	0.00,	0.00,	32.73,	7.04,	JES24	65	430
5	2.24,	6.70,	0.00,	0.00,	6.70,	5.02,	0.00,	JES24	66	437
6	0.00,	25.02,	0.00,	28.00,	0.00,	7.04,	6.00,	JES24	67	444
7	0.00,	0.00,	32.73,	0.00,	2.24,	6.70,	0.00,	JES24	68	451
8	0.00,	6.70,	5.02,	0.00,	0.00,	12.51,	0.00,	JES24	69	458
9	5.67,	0.00,	1.33,	1.02,	1.08,	1.02,	0.00,	JES24	70	465
#				0.00,	1.10,	1.16,	0.00,	JES24	71	472
1	0.00,	1.02,	0.00,	1.04,	0.00,	1.02,	1.20,	JES24	72	476
2	0.00,	0.00,	0.00,	1.00,	2.00,	0.00,	0.00,	JES24	73	483

	I2#389	INPUT117
	GO TO 17	INPUT118
C	PART TIME MEN	JES8 5
11	K#363	INPUT119
	I1#364	INPUT120
	I2#373	INPUT121
	GO TO 17	INPUT122
12	I1#390	INPUT123
	I2#394	INPUT124
	GO TO 17	INPUT125
C	TRACTORS AVAILABLE	JES8 6
13	K#374	INPUT126
	I1#375	INPUT127
	I2#384	INPUT128
	GO TO 17	INPUT129
14	I1#395	INPUT130
	I2#399	INPUT131
	GO TO 17	INPUT132
C	CORN HARVEST TIME	JES8 7
15	I1#322	INPUT133
	I2#324	INPUT134
	K#341	INPUT135
	GO TO 17	INPUT136
C	FALL LAND PREPARATION TIME	JES8 8
16	I1#401	INPUT137
	I2#405	INPUT138
	K#400	INPUT139
C	IF NO MULTIPLIERS, USE PURDUE BASE MULTIPLIERS	JES8 9
17	IF %R%K<.EQ.BIG< R%K<#PB%K<	INPUT140
	DO 18 L#I1,I2	INPUT141
C	IF NO INPUT DATA, USE PURDUE BASE DATA * MULTIPLIER	JES8 10
	IF %R%L<.EQ.BIG< R%L<#PB%L<#R%K<	INPUT142
18	CONTINUE	INPUT143
C	GO TO 22 IF FIRST OPERATIONS CELL NOT USED	JES23 1
	IF %R%417<.EQ.BIG< GO TO 22	JES 1
	DO 19 L#418,484	INPUT145
C	ANY DC BEANS EQUIPMENT FILLED IN	JES8 12
C	SET CELLS # 0 IF NO DATA FILLED IN	JES8 13
19	IF %R%L<.EQ.BIG< R%L<#0.	INPUT146
	DO 21 L#541,549	INPUT148
C	IF NO DATA, DC CELLS # 0.	JES8 14
21	IF %R%L<.EQ.BIG< R%L<#0.	INPUT149
C	GO TO 26 IF NO CORN YIELD MULTIPLIER	JES8 15
22	IF %R%528<.EQ.BIG< GO TO 26	INPUT150
	J#64	INPUT151
	DO 25 I#1,18	INPUT152
	J#J&7	INPUT153
C	IF NO YIELD SPECIFIED, USE FARMER MULTIPLIER AND PURDUE YIELD	JES8 16
	IF %R%J<.EQ.BIG< R%J<#PB%J<#R%528</PB%528<<	INPUT154
25	CONTINUE	INPUT155
26	DO 27 I#2,6	INPUT156
	K#71&I	INPUT157
C	IF NO SEED COST IN FIRST PERIOD, CHECK FERTILIZER COST, ETC.	JES8 17
	IF %R%K<.EQ.BIG< GO TO 27	INPUT158
	J#K	INPUT159
	DO 33 L#1,17	INPUT160
	J#J&7	INPUT161
C	IF NO COST IN OTHER PERIODS, USE FIRST PERIOD COSTS	JES8 18
	IF %R%J<.EQ.BIG< R%J<#R%K<	INPUT162
33	CONTINUE	INPUT163

27	CONTINUE	INPUT164
C	GO TO 30 IF NO SOYBEAN YIELD MULTIPLIER	JES8 19
	IF %R%531<.EQ.BIG< GO TO 30	INPUT165
	J#191	INPUT166
	DO 29 I#1,18	INPUT167
	J#J&6	INPUT168
C	IF NO YIELD SPECIFIED, USE FARMER MULTIPLIER AND PURDUE YIELD	JES8 20
	IF %R%J<.EQ.BIG< R%J<#PB%J<#%R%531</PB%531<<	INPUT169
29	CONTINUE	INPUT170
30	DO 31 I#1,4	INPUT171
	K#197&I	INPUT172
C	IF NO SEED COST IN FIRST PERIOD, CHECK FERTILIZER COST, ETC.	JES8 21
	IF %R%K<.EQ.BIG< GO TO 31	INPUT173
	J#K	INPUT174
	DO 34 L#1,17	INPUT175
	J#J&6	INPUT176
C	IF NO COST IN OTHER PERIODS, USE FIRST PERIOD COSTS	JES8 22
	IF %R%J<.EQ.BIG< R%J<#R%K<	INPUT177
34	CONTINUE	INPUT178
31	CONTINUE	INPUT179
37	IF %R%494<.EQ.0..AND.R%497<.EQ.0.< GO TO 38	INPUT187
	GO TO 39	INPUT188
38	R%494<#R%495<	INPUT189
	R%497<#R%498<	INPUT190
39	IF %R%500<.EQ.0..AND.R%505<.EQ.0.< GO TO 40	INPUT191
	GO TO 41	INPUT192
40	R%500<#R%501<	INPUT193
	R%505<#R%506<	INPUT194
41	IF %R%489<.GT.0.< GO TO 42	INPUT195
	IF %R%495<.EQ.0..AND.R%498<.EQ.0.< GO TO 42	INPUT196
	R%494<#R%495<	INPUT197
	R%497<#R%498<	INPUT198
42	IF %R%490<.GT.0.< GO TO 43	INPUT199
	IF %R%501<.EQ.0..AND.R%506<.EQ.0.< GO TO 43	INPUT200
	R%500<#R%501<	INPUT201
	R%505<#R%506<	INPUT202
43	DO 23 I#1,MAX	INPUT203
23	IF %R%I<.EQ.BIG< R%I<#PB%I<	INPUT204
	AVG#0.	INPUT205
	CNT#0.	INPUT206
	DO 99 I#522,523	INPUT207
C	AVERAGE WHEAT YIELD	JES8 23
	AVG#AVG&R%I<	INPUT208
	IF %R%I<.GT.0.< CNT#CNT&1.	INPUT209
99	CONTINUE	INPUT210
	IF %CNT.GT.0.< R%534<#AVG/CNT	INPUT211
C	FARM STORAGE IN BUSHELS	JES8 24
	IF %R%34<.LT.1000.< GO TO 604	JES 2
	WRITE%6,603< R%34<	JES 3
603	FORMAT%20 ** NOTE **@/@ THE CONTENTS OF CELL 30 %2,F9.2,@< IMPLY I	JES 4
	IN EXCESS OF ONE MILLION BUSHELS OF DRIED CORN AND SOYBEAN STORAGE	JES 5
	2CAPACITY.@/@ THEREFORE STORAGE CAPACITY WILL BE SET EQUAL TO CONTE	JES 6
	3NTS OF CELL 30 INSTEAD OF 1000 TIMES CELL 30@<	JES 7
	RETURN	JES 8
604	CONTINUE	JES 9
	R%34<#R%34<#1000.	INPUT216
	RETURN	INPUT217
	END	INPUT218
	SUBROUTINE TRANS	TRANS 1
	COMMON R,IADJ,WORK%50<.BIG	TRANS 2

	IBEG#85	TRANS 62
111	GO TO 115	TRANS 63
	J#46	TRANS 64
	IBEG#105	TRANS 65
112	GO TO 115	TRANS 66
	J#47	TRANS 67
	IBEG#125	TRANS 68
	GO TO 115	TRANS 69
113	J#48	TRANS 70
	IBEG#145	TRANS 71
	GO TO 115	TRANS 72
114	J#49	TRANS 73
	IBEG#165	TRANS 74
115	DO 116 ILP#1,3	TRANS 75
	J#J&7	TRANS 76
	K#J	TRANS 77
	IBEG#IBEG&6	TRANS 78
	IEND#IBEG&5	TRANS 79
	DO 1160 I#IBEG,IEND	TRANS 80
	K#K&21	TRANS 81
	R%K<#RB%I<	TRANS 82
1160	CONTINUE	TRANS 83
116	CONTINUE	TRANS 84
107	CONTINUE	TRANS 85
	R%531<#RB%200<	TRANS 86
	DO 117 LP#1,6	TRANS 87
	GO TO %118,119,120,121,122,123<,LP	TRANS 88
118	J#173	TRANS 89
	IBEG#195	TRANS 90
	GO TO 124	TRANS 91
119	J#178	TRANS 92
	IBEG#215	TRANS 93
	GO TO 124	TRANS 94
120	J#175	TRANS 95
	IBEG#235	TRANS 96
	GO TO 124	TRANS 97
121	J#174	TRANS 98
	IBEG#255	TRANS 99
	GO TO 124	TRANS100
122	J#176	TRANS101
	IBEG#275	TRANS102
	GO TO 124	TRANS103
123	J#177	TRANS104
	IBEG#295	TRANS105
124	DO 125 ILP#1,3	TRANS106
	J#J&6	TRANS107
	K#J	TRANS108
	IBEG#IBEG&6	TRANS109
	IEND#IBEG&5	TRANS110
	DO 126 I#IBEG,IEND	TRANS111
	K#K&18	TRANS112
	R%K<#RB%I<	TRANS113
126	CONTINUE	TRANS114
125	CONTINUE	TRANS115
117	CONTINUE	TRANS116
	R%563<#RB%319<	TRANS117
	R%551<#RB%320<	TRANS118
	R%522<#RB%321<	TRANS119
	R%523<#RB%322<	TRANS120
	R%519<#RB%323<	TRANS121

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DIMENSION RB%657<,DATA%10<,R%600<
REAL*8 BLK /a a/,DD%10<,IDENT
CALL REREAD
MAX#657
DO 99 I#1,MAX
RB%I<#BIG
100 READ %5,400,END#105< IDENT,ID,%DD%I<,I#1,10<
400 FORMAT%A7,I3,10A6<
WRITE %6,97< IDENT,ID,%DD%I<,I#1,10<
97 FORMAT%a a,A7,I3,10A6<
READ %99,98< %DATA%I<,I#1,10<
98 FORMAT %10X,10F6.0<
101 IF%ID.GT.MAX< GO TO 104
DO 102 I#1,10
IF %DD%I< .NE.BLK< RB%ID<#DATA%I<
102 ID#ID&1
GO TO 100
104 WRITE%6,500< IDENT,ID,%DATA%I<,I#1,10<
500 FORMAT%a BAD DATA ID CARD IS a,A7,I3,10F8.3<
GO TO 100
105 R%28<#RB%10<
R%29<#RB%11<
R%561<#RB%12<
R%562<#RB%13<
R%32<#RB%14<
R%33<#RB%15<
R%30<#RB%16<
R%31<#RB%17<
DO 106 I#18,21
J#I-16
R%J<#RB%I<
106 CONTINUE
R%550<#RB%22<
R%34<#RB%30<
R%59<#RB%31<
R%560<#RB%32<
R%61<#RB%33<
R%62<#RB%34<
R%63<#RB%35<
R%60<#RB%36<
R%554<#RB%37<
R%64<#RB%38<
R%553<#RB%39<
R%57<#RB%40<
R%53<#RB%41<
R%54<#RB%42<
R%58<#RB%43<
R%55<#RB%44<
R%56<#RB%45<
R%516<#RB%46<
R%528<#RB%50<
DO 107 LP#1,7
GO TO %108,109,110,111,112,113,114<,LP
108 J#43
IBEG#45
GO TO 115
109 J#44
IBEG#65
GO TO 115
110 J#45

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TRANS 3
CHNG 10
CHNG 20
TRANS 4
TRANS 5
TRANS 6
CHNG 30
CHNG 50
CHNG 60
CHNG 70
CHNG 80
CHNG 90
***** 4
***** 5
CHNG 100
CHNG 110
***** 12
***** 13
***** 14
***** 15
***** 16
TRANS 23
TRANS 24
TRANS 25
TRANS 26
TRANS 27
TRANS 28
TRANS 29
TRANS 30
TRANS 31
TRANS 32
TRANS 33
TRANS 34
TRANS 35
TRANS 36
TRANS 37
TRANS 38
TRANS 39
TRANS 40
TRANS 41
TRANS 42
TRANS 43
TRANS 44
TRANS 45
TRANS 46
TRANS 47
TRANS 48
TRANS 49
TRANS 50
TRANS 51
TRANS 52
TRANS 53
TRANS 54
TRANS 55
TRANS 56
TRANS 57
TRANS 58
TRANS 59
TRANS 60
TRANS 61

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	DO 147 I#412,414	JES14 1
	J#J&1	TRANS184
	R%JK#RB%I<	TRANS185
147	CONTINUE	TRANS186
	DO 148 LP#1,6	TRANS187
	GO TO%149,150,151,152,153,154<,LP	TRANS188
149	J#315	TRANS189
	IBEG#417	TRANS190
	IEND#421	TRANS191
	GO TO 155	TRANS192
150	J#335	TRANS193
	IBEG#422	TRANS194
	IEND#426	TRANS195
	GO TO 155	TRANS196
151	J#400	TRANS197
	IBEG#430	TRANS198
	IEND#434	TRANS199
	GO TO 155	TRANS200
152	J#384	TRANS201
	IBEG#435	TRANS202
	IEND#439	TRANS203
	GO TO 155	TRANS204
153	J#389	TRANS205
	IBEG#440	TRANS206
	IEND#444	TRANS207
	GO TO 155	TRANS208
154	J#394	TRANS209
	IBEG#445	TRANS210
	IEND#449	TRANS211
155	DO 156 I#IBEG,IEND	TRANS212
	J#J&1	TRANS213
	R%JK#RB%I<	TRANS214
156	CONTINUE	TRANS215
148	CONTINUE	TRANS216
	R%341<#RB%415<	TRANS217
	R%400<#RB%416<	TRANS218
	R%411<#RB%450<	TRANS219
	R%412<#RB%451<	TRANS220
	R%558<#RB%452<	TRANS221
	J#321	TRANS222
	DO 1480 I#427,429	TRANS223
	J#J&1	TRANS224
	R%JK#RB%I<	TRANS225
1480	CONTINUE	TRANS226
	J#485	TRANS227
	DO 157 I#453,455	TRANS228
	J#J&1	TRANS229
	R%JK#RB%I<	TRANS230
157	CONTINUE	TRANS231
	J#66	TRANS232
	DO 158 I#456,459	TRANS233
	J#J&1	TRANS234
	R%JK#RB%I<	TRANS235
158	CONTINUE	TRANS236
	DO 159 LP#1,4	TRANS237
	GO TO %160,161,162,163<,LP	TRANS238
160	I#496	TRANS239
	IBEG#417	TRANS240
	IEND#426	TRANS241
	GO TO 164	TRANS242

R%518<#RB%324<
 R%520<#RB%325<
 R%521<#RB%326<
 R%552<#RB%327<
 R%535<#RB%328<
 R%536<#RB%329<
 R%538<#RB%330<
 R%537<#RB%331<
 R%539<#RB%332<
 R%540<#RB%333<
 R%557<#RB%334<
 J#7
 DO 134 I#335,342
 J#J&1
 R%J<#RB%I<
 134 CONTINUE
 R%305<#RB%350<
 R%325<#RB%351<
 R%345<#RB%352<
 R%352<#RB%353<
 R%363<#RB%354<
 R%374<#RB%355<
 DO 135 LP#1,2
 GO TO %136,137<,LP
 136 J#305
 IBEG#356
 IEND#365
 GO TO 138
 137 J#325
 IBEG#366
 IEND#375
 138 DO 139 I#IBEG,IEND
 J#J&1
 R%J<#RB%I<
 139 CONTINUE
 135 CONTINUE
 J#345
 DO 140 I#376,381
 J#J&1
 R%J<#RB%I<
 140 CONTINUE
 DO 141 LP#1,3
 GO TO %142,143,144<,LP
 142 J#352
 IBEG#382
 IEND#391
 GO TO 145
 143 J#363
 IBEG#392
 IEND#401
 GO TO 145
 144 J#374
 IBEG#402
 IEND#411
 145 DO 146 I#IBEG,IEND
 J#J&1
 R%J<#RB%I<
 146 CONTINUE
 141 CONTINUE
 J#405

TRANS122
 TRANS123
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 TRANS182

161 I#497
 IBEG#435
 IEND#444
 GO TO 164
 162 I#498
 IBEG#453
 IEND#462
 GO TO 164
 163 I#499
 IBEG#467
 IEND#476
 164 DO 165 J#IBEG,IEND
 I#I&4
 R%J<#RB%I<
 165 CONTINUE
 159 CONTINUE
 R%413<#RB%540<
 R%414<#RB%541<
 R%415<#RB%550<
 R%416<#RB%551<
 DO 166 LP#1,4
 GO TO%167,168,169,170<,LP
 167 I#538
 IBEG#427
 GO TO 171
 168 I#539
 IBEG#445
 GO TO 171
 169 I#540
 IBEG#463
 GO TO 171
 170 I#541
 IBEG#477
 171 IEND#IBEG&1
 DO 172 J#IBEG,IEND
 I#I&4
 R%J<#RB%I<
 172 CONTINUE
 166 CONTINUE
 DO 173 LP#1,4
 GO TO %174,175,176,177<,LP
 174 I#548
 IBEG#429
 GO TO 178
 175 I#549
 IBEG#447
 GO TO 178
 176 I#550
 IBEG#465
 GO TO 178
 177 I#551
 IBEG#479
 178 IEND#IBEG&1
 DO 179 J#IBEG,IEND
 I#I&4
 R%J<#RB%I<
 179 CONTINUE
 173 CONTINUE
 DO 180 LP#1,3
 GO TO %181,182,183<,LP

TRANS243
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 TRANS302

181	I#557	TRANS303
	IBEG#431	TRANS304
	GO TO 184	TRANS305
182	I#558	TRANS306
	IBEG#449	TRANS307
	GO TO 184	TRANS308
183	I#559	TRANS309
	IBEG#481	TRANS310
184	IEND#IBEG&3	TRANS311
	DO 185 J#IBEG,IEND	TRANS312
	I#I&3	TRANS313
	R%JK#RB%I<	TRANS314
185	CONTINUE	TRANS315
180	CONTINUE	TRANS316
	DO 186 LP#1,3	TRANS317
	GO TO %187,188,189<,LP	TRANS318
187	I#569	TRANS319
	IBEG#541	TRANS320
	GO TO 190	TRANS321
188	I#570	TRANS322
	IBEG#544	TRANS323
	GO TO 190	TRANS324
189	I#571	TRANS325
	IBEG#547	TRANS326
190	IEND#IBEG&2	TRANS327
	DO 191 J#IBEG,IEND	TRANS328
	I#I&3	TRANS329
	R%JK#RB%I<	TRANS330
191	CONTINUE	TRANS331
186	CONTINUE	TRANS332
	R%489<#RB%610<	TRANS333
	R%490<#RB%613<	TRANS334
	R%491<#RB%616<	TRANS335
	R%492<#RB%621<	TRANS336
	R%493<#RB%624<	TRANS337
	R%494<#RB%611<	TRANS338
	R%495<#RB%617<	TRANS339
	R%497<#RB%612<	TRANS340
	R%498<#RB%618<	TRANS341
	R%500<#RB%614<	TRANS342
	R%501<#RB%619<	TRANS343
	R%502<#RB%622<	TRANS344
	R%505<#RB%615<	TRANS345
	R%506<#RB%620<	TRANS346
	R%507<#RB%623<	TRANS347
	R%510<#RB%625<	TRANS348
	R%496<#RB%626<	TRANS349
	R%499<#RB%627<	TRANS350
	R%503<#RB%628<	TRANS351
	R%504<#RB%630<	TRANS352
	R%508<#RB%629<	TRANS353
	R%509<#RB%631<	TRANS354
	R%511<#RB%632<	TRANS355
	R%47<#RB%640<	TRANS356
	R%48<#RB%641<	TRANS357
	R%555<#RB%642<	TRANS358
	R%556<#RB%643<	TRANS359
	R%45<#RB%644<	TRANS360
	R%559<#RB%645<	TRANS361
	R%46<#RB%646<	TRANS362

	R%49<#RB%647<	TRANS363
	R%50<#RB%648<	TRANS364
	R%524<#RB%650<	TRANS365
	R%525<#RB%654<	TRANS366
	DO 192 LP#1,2	TRANS367
	GO TO %193,194<,LP	TRANS368
193	J#523	TRANS369
	IBEG#651	TRANS370
	GO TO 195	TRANS371
194	J#524	TRANS372
	IBEG#655	TRANS373
195	IEND#IBEG&2	TRANS374
	DO 196 I#IBEG,IEND	TRANS375
	J#J&3	TRANS376
	R%J<#RB%I<	TRANS377
196	CONTINUE	TRANS378
192	CONTINUE	TRANS379
	R%564<#RB%49<	JES15 1
	R%565<#RB%199<	JES15 2
	RETURN	TRANS380
	END	TRANS381
	SUBROUTINE RNTLND	RNTLN 1
	COMMONR,IADJ,WORK%50<,BIG	RNTLN 2
	COMMON/BND/BNDS%70,3<,IBD2,IRHSE	CHNG 10
	DIMENSIONR%600<	RNTLN 3
	IBD2=0	CHNG 20
	IR#7000001	RNTLN 4
	IROW#7000002	RNTLN 5
	ICOL#8000002	RNTLN 6
	A#0.	RNTLN 7
C	PRESENT CONTINUE ---- OPTIMUM, GO TO 1	JES8 1
	IF%IADJ.EQ.2< GO TO 1	RNTLN 8
	B#0.	RNTLN 9
	CALL BNDADJ%ICOL,A,B<	RNTLN 10
	A#-R%33<	RNTLN 11
C	CJ FOR RENTING OUT	JES8 2
	CALLAIJ%IR,ICOL,A<	RNTLN 12
	A#1.	RNTLN 13
	CALLAIJ%IROW,ICOL,A<	RNTLN 14
	GOTO2	RNTLN 15
C	COME HERE ONLY IF OPTIMUM PLAN	JES8 4
1	A#R%32<	RNTLN 16
	B#0.	RNTLN 17
C	BOUND RENT OUT	JES8 5
	CALL BNDD%ICOL,A,B<	RNTLN 18
	A#R%30<	RNTLN 19
	ICOL#ICOL&1	RNTLN 20
C	BOUND RENT IN	JES8 6
	CALL BNDD%ICOL,A,B<	RNTLN 21
	IF%IADJ.EQ.2<RETURN	RNTLN 22
2	CONTINUE	RNTLN 23
	ICOL#ICOL&1	RNTLN 24
C	SUM OF CROP ACRES - OWN-RENT	JES8 7
	B#R%2<&R%3<&R%4<&R%5<-%R%28<&R%561<<	RNTLN 25
	IF%B.LT.0.< B#0.	RNTLN 26
	IF%B.GT.R%30<< B#R%30<	RNTLN 27
	A#B	RNTLN 28
C	SET UPPER AND LOWER BOUND EQUAL %PRESENT PLAN<	JES8 8
	CALL BNDADJ%ICOL,A,B<	RNTLN 29
	A#R%31<	RNTLN 30

C	CJ FOR RENTING IN	JES8	9
	IR#7000001	JES5	1
	CALLAIJ%IR,ICOL,A<	RNTLN	31
	A#-1.	RNTLN	32
	CALL AIJ%IROW,ICOL,A<	RNTLN	33
	RETURN	RNTLN	34
	END	RNTLN	35
	SUBROUTINE HIRLAB	HIRLA	1
	COMMONR,IADJ,WORK%50<,BIG	HIRLA	2
	DIMENSIONR%600<	HIRLA	3
	IF%IADJ.EQ.2<RETURN	HIRLA	4
	ICOL#8000003	HIRLA	5
	B#0.	HIRLA	6
	IROW#7000005	HIRLA	7
	DO 3 I#1,13	HIRLA	8
	ICOL#ICOL&1	HIRLA	9
	I1#307&I	HIRLA	10
	I2#327&I	HIRLA	11
	I3#365&I	HIRLA	12
	IF%I-8< 10,10,5	HIRLA	13
5	I3#3&I	HIRLA	14
10	A#R%I1<*R%I2<*R%I3<	HIRLA	15
	IF%I-13< 20,1,20	HIRLA	16
1	DO 2 J#1,2	HIRLA	17
20	2 A#A&R%305&J<*R%325&J<*R%363&J<	HIRLA	18
	CALL BNDD%ICOL,A,B<	HIRLA	19
	IROW#IROW&1	HIRLA	20
	IR#7000001	HIRLA	21
	A#R%69<	HIRLA	22
	CALLAIJ%IR,ICOL,A<	HIRLA	23
	A#-R%70<	HIRLA	24
	CALLAIJ%IROW,ICOL,A<	HIRLA	25
3	CONTINUE	HIRLA	26
4	RETURN	HIRLA	27
	END	HIRLA	28
	SUBROUTINE PREP%IBEAN<	PREP	1
	COMMONR,IADJ,WORK%50<,BIG	PREP	2
	DIMENSIONR%600<	PREP	3
	L#4	PREP	4
	IF%IADJ.EQ.2<RETURN	PREP	5
	IC#8000016&IBEAN*46	PREP	6
	WORK%9<#0.	PREP	7
	S3#0.	PREP	8
	S#0	PREP	9
	ISDY#0	PREP	10
	DO2I#1,6	PREP	11
C	FIGURE HOJRS REQUIRED PER ACRE	PREP	12
C		PREP	13
	C#R%416&I<*R%434&I&IBEAN*18<	PREP	14
	WORK%1<#0.	PREP	15
	IF%C<2,2,1	PREP	16
1	WORK%1<#1.0/C	PREP	17
	S3#S3&1./R%434&I&IBEAN*18<	PREP	18
	S#S&WORK%1<	PREP	19
2	CONTINUE	PREP	20
	WORK%7<#0.	PREP	21
	WORK%8<#0.	PREP	22
C		PREP	23
C	WORK%1-5< HOURS/ACRE/IMPLEMENT	PREP	24
C	WORK%5< TOTAL RATE FOR ALL IMPLEMENTS	PREP	25

	CALL AIJ%IR,IC,A<	PREP 84
	IR#IRE1	PREP 85
	CALL AIJ%IR,IC,A<	PREP 86
	GO TO 11	PREP 87
13	IR#7000106	PREP 88
	A#1.	PREP 89
	CALL AIJ%IR,IC,A<	PREP 90
	GO TO 11	PREP 91
14	IF %I.GT.3< GO TO 11	PREP 92
	IF %I.EQ.3< GO TO 15	PREP 93
	IR#7000105	PREP 94
	A#1.	PREP 95
	CALL AIJ%IR,IC,A<	PREP 96
	IR#IRE1	PREP 97
	CALL AIJ%IR,IC,A<	PREP 98
	GO TO 11	PREP 99
15	IR#7000106	PREP 100
	A#1.	PREP 101
	CALL AIJ%IR,IC,A<	PREP 102
11	CONTINUE	PREP 103
	RETURN	PREP 104
100	L#5	PREP 105
	ISOY#1	PREP 106
	L2#11	PREP 107
	ICOL#8000065	PREP 108
	GOTO8	PREP 109
	END	PREP 110
	SUBROUTINE CORNB%IBEAN<	CORNB 1
	COMMONR,IADJ,WORK%50<,BIG	CORNB 2
	DIMENSIONR%600<	CORNB 3
	IF%IADJ.EQ.2<RETURN	CORNB 4
	ICNT#0	CORNB 5
	CALLSETUP%IBEAN<	CORNB 6
	DD1000IWET#1,2	CORNB 7
	DD1000J#1,18	CORNB 8
	K#71&%J-1<*&%8-IBEAN<&%IBEAN-1<*&126	CORNB 9
	K1#K-3&IBEAN*4	CORNB 10
	JF#560-%2-IBEAN*501	CORNB 11
	IF %R%K1<.LE.R%JF<-4.< R%K1<#R%JF<&R%K1<	CORNB 12
	IF %R%K1<.LE.R%JF<< R%K1<#R%JF<	CORNB 13
1234	FORMAT%2X,2%I4,F16.4<<	CORNB 14
	IF%R%K<<1,1,2	CORNB 15
1	A#BIG	CORNB 16
	GOTO6	CORNB 17
2	IF%R%525&IBEAN*3<.LE.0.< GO TO 1	CORNB 18
	A#0.	CORNB 19
	I1#K&3-IBEAN	CORNB 20
	I2#I1&5-IBEAN	CORNB 21
	ICNT#ICNT&1	CORNB 22
	DO3I#I1,I2	CORNB 23
3	A#A&R%I<	CORNB 24
32	B#%R%K-3&IBEAN*4<-R%JF<<*&%K</10.	CORNB 25
33	GOTO %5,4<,IWET	CORNB 26
4	A#A&B*R%60&%IBEAN-1<*&494<	CORNB 27
50	IF%R%60&IBEAN<< 66.66,6	CORNB 28
66	IF%B<1,6,1	CORNB 29
5	A#A-%R%52&IBEAN*2<-R%50&IBEAN<<*&%K<&B*R%64&%IBEAN-1<*&489<	CORNB 30
6	IC#8000026	CORNB 31
	1&%IWET-1<*&18&J&%IBEAN-1<*&47	CORNB 32
	IR#7000001	CORNB 33

C	WORK%7-8< MAX WORK RATE USING MAX%7< AND MIN%8< TRACTORS	PREP	26
C	WORK%9< LABOR HOURS	PREP	27
	DO 7 I#1,6	PREP	28
	WORK%7<#AMAX1%WORK%I<,WORK%7<<	PREP	29
7	WORK%9<#WORK%9<&WORK%I<*R%416&I<*R%466&I<	PREP	30
	WORK%6<#S	PREP	31
	IF%IBEAN<99,99,100	PREP	32
99	L2#10	PREP	33
8	DO11I#1,L2	PREP	34
	IR#7000001	PREP	35
	IC#IC&1	PREP	36
	A#R%526&3*IBEAN<&.001*I	JES11	1
	CALLAIJ%IR,IC,A<	PREP	38
	IR#7000014&I-ISOY	PREP	39
	IF%I.GT.L<IR#IR-L-9&ISOY	PREP	40
	A#WORK%9<	PREP	41
	CALLAIJ%IR,IC,A<	PREP	42
	IR#7000002	PREP	43
	A#1.	PREP	44
	CALLAIJ%IR,IC,A<	PREP	45
	IR#7000039&I-ISOY	PREP	46
	IF%I.GT.L<IR#IR-L-21&ISOY	PREP	47
	MT#I-ISOY&395	PREP	48
	IF%I.GE.L< MT#376-L&I	PREP	49
	TRAC#R%MT<	PREP	50
	A#BIG	PREP	51
	IF%TRAC.GT. 0.< A#WORK%6</TRAC	PREP	52
	A#AMAX1%A,WORK%7<<	PREP	53
	CALLAIJ%IR,IC,A<	PREP	54
	IR#7000050&I-ISOY	PREP	55
	IF%IR.EQ.7000054< GO TO 80	PREP	56
	IF%I.GT.L< IR#IR-L-7&ISOY	PREP	57
	A#S3	PREP	58
	CALLAIJ%IR,IC,A<	PREP	59
80	CONTINUE	PREP	60
	I1#66&9*ISOY	PREP	61
	I2#I1&5	PREP	62
	IF%I.GT.L<I1#I1&I-L-1	PREP	63
	DO 9 J#I1,I2	PREP	64
	IR#7000000&J	PREP	65
	A#-1.	PREP	66
9	CALLAIJ%IR,IC,A<	PREP	67
	I1#71&9*ISOY &I	PREP	68
	I2#74&9*ISOY	PREP	69
	IF %I1.GT.I2< GO TO 120	JES18	1
	DO10J#I1,I2	PREP	71
	IR#7000000&J	PREP	72
	A#1.	PREP	73
10	CALLAIJ%IR,IC,A<	PREP	74
120	A#1.	JES18	2
	IF %I.GT.4< GO TO 12	JES19	1
	IF %I.GT.3.AND.IBEAN.EQ.0< GO TO 12	JES18	4
	IR#7000102	PREP	76
	CALL AIJ%IR,IC,A<	PREP	77
12	IF %R%563<.GT.0.< GO TO 11	PREP	78
	IF %IBEAN.GT.0< GO TO 14	PREP	79
	IF %I.GT.2< GO TO 11	PREP	80
	IF %I.EQ.2< GO TO 13	PREP	81
	IR#7000105	PREP	82
	A#1.	PREP	83

A#AER%65<
CALLAIJ%IR,IC,AK
IR#7000002&IBEAN
A#1.

CALLAIJ%IR,IC,AK

POST PLANT AND PLANTING

L#J-1</3

N#J-L#3

DO7I#25,50

7 WORK%I<#0.

LABOR HOURS 25-32

FIELD HOURS 34-41

TRACTOR HOURS 43-50

PLANTING

TRAC#R%377&L<

A#BIG

IF%TRAC.GT.0.< A#WORK%9</TRAC

WORK%25&L<#WORK%12<

IF%A.LT.WORK%15<< A#WORK%15<

IR#7000025&L

WORK%43&L<#WORK%1<

CALLAIJ%IR,IC,AK

POST PLANT 1

DO8I#1,2

M#R%410&I#2&IBEAN<EL

IF%M.GT.11< GO TO 8

IF%M.GT.7<M#7

WORK%25&M<#WORK%12&I<&WORK%25&M<

TRAC#R%377&M<

A#BIG

IF%TRAC.GT.0.< A#WORK%9&I</TRAC

A#AMAX1%A,WORK%16&I< <

WORK%34&M<#WORK%34&M<&A

IF%M.GT.5< GO TO 8

WORK%43&M<#WORK%43&M<&WORK%I&1<

8 CONTINUE

IF#1

I1#25

I2#32

IR#7000005

9 DO10I#11,12

IR#IRE1

IF%WORK%I<.LE.0.<GOTO10

A#WORK%I<

CALLAIJ%IR,IC,AK

10 CONTINUE

I1#11&9

I2#12&9

IR#7000030

IF#IF&1

GOTO%9,9,11,12<,IF

11 I2#48

IR#7000043

GOTO9

HARVESTING

CORNB 34

CORNB 35

CORNB 36

CORNB 37

CORNB 38

CORNB 39

CORNB 40

CORNB 41

CORNB 42

CORNB 43

CORNB 44

CORNB 45

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CORNB 85

CORNB 86

CORNB 87

CORNB 88

CORNB 89

CORNB 90

CORNB 91

CORNB 92

CORNB 93

C	12	C1#85-IBEAN*35	CORNB 94
		C#R%489&IBEAN*8<-R%488&IBEAN*6<</C1	CORNB 95
		B#C*%100.-%IBEAN-1<*70-R%K<<&R%489&IBEAN*8<	CORNB 96
		IF%R%K<.LE.0.<GOTO13	CORNB 97
C			CORNB 98
C		FIELD HOURS	CORNB 99
		IR#7000054&N&%IBEAN-1<*29	CORNB100
		A#BIG	CORNB101
		IF%B.GT.0.< A#1./B	CORNB102
		CALLAIJ%IR,IC,A<	CORNB103
C			CORNB104
C		DRYING AND DRY GRAIN	CORNB105
C			CORNB106
	13	GO TO %17,130<,IWET	CORNB107
	130	IF%R%K<.EQ.0.< GO TO 17	CORNB108
		IF%R%60&IBEAN<<15,15,14	CORNB109
	14	FAC#1.	CORNB110
		IF%R%61<.GT.0.< FAC#R%61</R%60&IBEAN<	CORNB111
		JF#560-%2-IBEAN<*501	CORNB112
		A#R%K<%R%K-3&IBEAN*4<-R%JF<<*FAC/10.	CORNB113
		GOTO16	CORNB114
	15	JF#560-%2-IBEAN<*501	CORNB115
		IF %R%K-3&IBEAN*4<-R%JF<< 160,160,151	CORNB116
	151	A#BIG	CORNB117
	16	IR#7000061-IBEAN&N	CORNB118
		IF%R%K<.EQ.0.< GOTO 17	CORNB119
		IF%A.LE.0.< GO TO 160	CORNB120
		CALL AIJ%IR,IC,A<	CORNB121
C			CORNB122
C		DRY CORN AND BEANS	CORNB123
C			CORNB124
	160	A#-R%K<	CORNB125
		IR#7000060-IBEAN	CORNB126
		CALLAIJ%IR,IC,A<	CORNB127
C			CORNB128
C		LAND RECONCILIATION	CORNB129
C			CORNB130
	17	IR#7000066&L&%IBEAN-1<*9	CORNB131
		IR#IR-1	CORNB132
		I1#L&1	CORNB133
		I2#6	CORNB134
		DO18I#I1,I2	CORNB135
		IR#IRE1	CORNB136
		A#1.	CORNB137
	18	CALLAIJ%IR,IC,A<	CORNB138
		A#-1.	CORNB139
		IR#IRE&N-1	CORNB140
		DO19I#N,3	CORNB141
		IR#IRE1	CORNB142
		IF %R%563<.GT.0.< GO TO 1000	CORNB143
	19	CALLAIJ%IR,IC,A<	JES2 1
		IR#7000105	CORNB144
		A#1.	CORNB145
		IF %IBEAN.EQ.2< GO TO 172	CORNB146
		GO TO%1000,170,17.<,N	CORNB147
	170	CALL AIJ%IR,IC,A<	CORNB148
		GO TO 1000	CORNB149
	171	CALL AIJ%IR,IC,A<	CORNB150
		IR#IRE1	CORNB151
			CORNB152

2	A#R%518<ER%519<ER%520<ER%521<-R%516<*R%K<ER%532<	WHEAT 11
3	IR#7000001	WHEAT 12
	IC#8000109	WHEAT 13
	IC#IC&I	WHEAT 14
	CALLAIJ%IR,IC,A<	WHEAT 15
	IR#7000002	WHEAT 16
	A#1.	WHEAT 17
	CALLAIJ%IR,IC,A<	WHEAT 18
	IR#7000005	WHEAT 19
	CALL AIJ%IR,IC,A<	WHEAT 20
	W#BIG	WHEAT 21
	S#0.	WHEAT 22
	S3#0.	WHEAT 23
	S2#0.	WHEAT 24
	DO5J#1,4	WHEAT 25
	WC#R%430&J<*R%448&J<	WHEAT 26
	IF%WC<5,5,4	WHEAT 27
4	W#AMIN1%W,WC<	WHEAT 28
	S3#S3&1./R%448&J<	WHEAT 29
	S#S&1./WC	WHEAT 30
	S2#S2&R%480&J</R%448&J<	WHEAT 31
5	CONTINUE	WHEAT 32
	W#1./W	WHEAT 33
	IF%R%396&L<<6,6,7	WHEAT 34
6	Z#BIG	WHEAT 35
	GOTO8	WHEAT 36
7	Z#S/R%396&L<	WHEAT 37
	Z#AMAX1%W,Z<	WHEAT 38
C	ZISMAXTRACTORWORKINGRATE	WHEAT 39
C	SISSUMOFFALLWORKINGRATES	WHEAT 40
C	S2ISLABORSUM	WHEAT 41
		WHEAT 42
8	IR#7000014&L	WHEAT 43
	IR#IRE1	WHEAT 44
12	A#S2	WHEAT 45
	CALLAIJ%IR,IC,A<	WHEAT 46
	IR#7000050&L	WHEAT 47
	IR#IRE1	WHEAT 48
	A#S3	WHEAT 49
	CALLAIJ%IR,IC,A<	WHEAT 50
	IR#7000039&L	WHEAT 51
	IR#IRE1	WHEAT 52
	A#Z	WHEAT 53
	CALLAIJ%IR,IC,A<	WHEAT 54
C	HARVESTING	WHEAT 55
		WHEAT 56
14	W#R%507<-R%502<</%45.-30.<	WHEAT 57
	WWW#R%507<EW#%30.-R%522&L<<	WHEAT 58
	IF%WWW<16,16,15	WHEAT 60
15	IR#7000099	WHEAT 61
	A#1./WWW	WHEAT 62
	CALLAIJ%IR,IC,A<	WHEAT 63
16	IR#7000098	WHEAT 64
	A#-1.	WHEAT 65
	CALLAIJ%IR,IC,A<	WHEAT 66
	IF %R%563<.GT.0.< GO TO 30	JES2 1
	IR#7000105	WHEAT 67
	A#1.	WHEAT 68
	GO TO %17,18<,I	WHEAT 69
17	CALL AIJ%IR,IC,A<	WHEAT 70

	CALL AIJ%IR,IC,A<	CORNB153
	GO TO 1000	CORNB154
172	IF %N.NE.3< GO TO 1000	CORNB155
	IR#7000105	UPDAT1 1
	CALL AIJ%IR,IC,A<	CORNB157
1000	CONTINUE	CORNB158
	RETURN	CORNB159
	END	CORNB160
	SUBROUTINESETUP%ICRN<	SETUP 1
C		SETUP 2
C	SETUPPLANTING	SETUP 3
C		SETUP 4
C	WORK%1-8<HR/ACREEACHIMPLEMENT	SETUP 5
C	WORK%9-11<HR/ACREALLIMPLEMENTS	SETUP 6
C	WORK%12-14<LABORHRS/ACRE	SETUP 7
	COMMON R,IADJ,WORK%50<,BIG	SETUP 8
	DIMENSION R%600<	SETUP 9
	L#%ICRN-1<#18	SETUP 10
	WORK%19<#0.	SETUP 11
	DO1000I#1,8	SETUP 12
	A#R%422&I<#R%440&I&L<	SETUP 13
	WORK%I<#0.	SETUP 14
	IF%A<1000,1000,900	SETUP 15
900	WORK%I<#1,0/A	SETUP 16
1000	WORK%8&I<#0.	SETUP 17
	DO1100I#1,4	SETUP 18
	WORK%9<#WORK%9<&WORK%I<	SETUP 19
	WORK%19<#WORK%19<&WORK%I<#R%422&I<	SETUP 20
1100	WORK%12<#WORK%12<&WORK%I<#R%422&I<#R%472&I<	SETUP 21
	WORK%15<#0.	SETUP 22
	WORK%17<#0.	SETUP 23
	WORK%18<#0.	SETUP 24
1250	DO1300I#1,4	SETUP 25
1300	WORK%15<#AMAX1%WORK%15<,WORK%I<<	SETUP 26
	WORK%1<#WORK%19<	SETUP 27
	WORK%2<#0.	SETUP 28
	WORK%3<#0.	SETUP 29
	DO1400I#1,2	SETUP 30
	WORK%10<#WORK%10<&WORK%4&I<	SETUP 31
	WORK%2<#WORK%2<&WORK%I&4<#R%426&I<	SETUP 32
	WORK%3<#WORK%3<&WORK%6&I<#R%428&I<	SETUP 33
	WORK%11<#WORK%11<&WORK%6&I<	SETUP 34
	WORK%13<#WORK%13<&WORK%4&I<#R%426&I<#R%476&I<	SETUP 35
1400	WORK%14<#WORK%14<&WORK%6&I<#R%428&I<#R%478&I<	SETUP 36
1550	DO1600I#1,2	SETUP 37
	WORK%17<#AMAX1%WORK%17<,WORK%4&I<<	SETUP 38
1600	WORK%18<#AMAX1%WORK%18<,WORK%6&I<	SETUP 39
1<		SETUP 40
	RETURN	SETUP 41
	END	SETUP 42
	SUBROUTINEWHEAT	WHEAT 1
	DIMENSIONR%600<	WHEAT 2
	COMMONR,IADJ,WORK%50<,BIG	WHEAT 3
	IF%IADJ.EQ.2<RETURN	WHEAT 4
	DO 30 I#1,2	WHEAT 5
	K#521&I	WHEAT 6
	L#I-1	WHEAT 7
	IF%R%522&L<.NE.0. .AND. R%534<.NE.0.< GO TO 2	WHEAT 8
1	A#BIG	WHEAT 9
	GOTO3	WHEAT 10

```

A#BIG
IF%TRAC.GT.0.< A#WORK%9</TRAC
A#AMAX1%A,WORK%15<<
IR#7000025&IPLANT
CALL AIJ%IR,IC,A<
WORK%43&IPLANT<#WORK%1<
DO 6 I#1,2
M#R%411&I#2<&IPLANT
IF%M.GT.11< GO TO 6
IF%M.GT.7< M#7
WORK%25&M<#WORK%25&M<&WORK%12&I<
A#BIG
TRAC#R%377&M<
IF%TRAC.GT.0.< A#WORK%9&I</TRAC
WORK%34&M<#WORK%34&M<&AMAX1%A,WORK%16&I<<
IF%M.GT.5 < GO TO 6
WORK%43&M<#WORK%43&M<&WORK%1&I<
6 CONTINUE
I1#25
I2#32
IF#1
IR#7000005
7 DO 9 I#I1,I2
IR#IR&1
IF%WORK%I<< 9,9,8
8 A#WORK%I<
CALL AIJ%IR,IC,WORK%I<<
9 CONTINUE
I1#I1&9
I2#I2&9
IR#7000030
IF#IF&1
GO TO %7,7,10,11<,IF
10 I2#48
IR#7000043
GO TO 7

```

```

C
C HARVESTING
C
11 IF%R%510<< 1001,1001,1002

```

```

1001 A#BIG
GO TO 1003
1002 A#1.0/R%510<
1003 IR#7000102&IHAR
CALL AIJ%IR,IC,A<

```

```

C
C LAND
C

```

```

14 I1#66&IPLANT
I2#71
A#1.
DO 15 I#I1,I2
IR#I&7000000
15 CALL AIJ%IR,IC,A<
A#-1.
I1#71&IHAR
I2#74
DO 16 I#I1,I2
IR#I&7000000
16 CALL AIJ%IR,IC,A<

```

```

SILAG 32
SILAG 33
SILAG 34
SILAG 35
SILAG 36
SILAG 37
SILAG 38
SILAG 39
SILAG 40
SILAG 41
SILAG 42
SILAG 43
SILAG 44
SILAG 45
SILAG 46
SILAG 47
SILAG 48
SILAG 49
SILAG 50
SILAG 51
SILAG 52
SILAG 53
SILAG 54
SILAG 55
SILAG 56
SILAG 57
SILAG 58
SILAG 59
SILAG 60
SILAG 61
SILAG 62
SILAG 63
SILAG 64
JES23 1
SILAG 66
SILAG 67
SILAG 68
SILAG 69
SILAG 70
SILAG 71
SILAG 72
SILAG 73
SILAG 74
SILAG 75
SILAG 76
SILAG 77
SILAG 78
SILAG 79
SILAG 80
SILAG 81
SILAG 82
SILAG 83
SILAG 84
SILAG 85
SILAG 86
SILAG 87
SILAG 88
SILAG 89
SILAG 90
SILAG 91

```

```

IR#IRE1
CALL AIJ%IR,IC,A<
GO TO 30
18 IR#IRE1
CALL AIJ%IR,IC,A<
30 CONTINUE
RETURN
END

```

```

SUBROUTINE STORED
COMMON R,IADJ,WORK%50<,BIG
DIMENSION R%600<
IF%IADJ.EQ.2<RETURN

```

```

IC#8000112
IR#7000001
A#-R%57<
CALL AIJ%IR,IC,A<
IR#7000059

```

```

A#1.
CALL AIJ%IR,IC,A<
IR#7000064
CALL AIJ%IR,IC,A<
IC#IC&1
IR#7000001
A#-R%58<

```

```

CALL AIJ%IR,IC,A<
A#1.
IR#7000058
CALL AIJ%IR,IC,A<
IR#7000064
CALL AIJ%IR,IC,A<
RETURN
END

```

```

SUBROUTINE SILAGE
COMMON R,IADJ,WORK%50<,BIG
DIMENSION R%600<
IF%IADJ.EQ.2<RETURN

```

```

CALL SETUP%1<
IHV#1
DO 1000 J#1,12
IC#IHV%12&J&101
IC#ICE8000000
IPLANT#%J-1</2
TRAC#R%377&IPLANT<
IR#7000001
IHAR#J-IPLANT*2
K#71&IPLANT*21&IHAR*7-7
IF%R%K<<1,1,2

```

```

1 A#BIG
GO TO 4
2 KL#K&2
LL#K&6
A#R%65<
DO 3 I#KL,LL
3 A#A&R%I<
A#A-R%15<*R%14<
IF%IHV.EQ.2.AND.R%493<.EQ.0.< GO TO 1
4 CALL AIJ%IR,IC,A<
DO 5 I#25,50
5 WORK%I<#0.
WORK%25&IPLANT<#WORK%12<

```

```

WHEAT 71
WHEAT 72
WHEAT 73
WHEAT 74
WHEAT 75
WHEAT 76
WHEAT 77
WHEAT 78
STORE 1
STORE 2
STORE 3
STORE 4
STORE 5
STORE 6
STORE 7
STORE 8
STORE 9
STORE 10
STORE 11
STORE 12
STORE 13
STORE 14
STORE 15
STORE 16
STORE 17
STORE 18
STORE 19
STORE 20
STORE 21
STORE 22
STORE 23
STORE 24
SILAG 1
SILAG 2
SILAG 3
SILAG 4
SILAG 5
SILAG 6
SILAG 7
SILAG 8
SILAG 9
SILAG 10
SILAG 11
SILAG 12
SILAG 13
SILAG 14
SILAG 15
SILAG 16
SILAG 17
SILAG 18
SILAG 19
SILAG 20
SILAG 21
SILAG 22
SILAG 23
SILAG 24
SILAG 25
SILAG 29
SILAG 30
SILAG 31

```

13	CALL AIJ%IR,IC,A<	DOUBL 54
	IR#7000058	DOUBL 55
	A#-R%535<	DOUBL 56
	CALL AIJ%IR,IC,A<	DOUBL 57
1100	C#%R%505<-R%500<</15.	DOUBL 58
	B#C* %30.-R%535<<&R%505<	DOUBL 59
	A#BIG	DOUBL 60
	IF %B.GT.0.< A#1./B	DOUBL 61
	IR#7000086	DOUBL 62
	CALL AIJ%IR,IC,A<	DOUBL 63
	IR#7000098	DOUBL 64
	A#1.	DOUBL 65
	CALL AIJ%IR,IC,A<	DOUBL 66
	IR#7000101	DOUBL 67
	CALL AIJ%IR,IC,A<	DOUBL 68
	IF %R%563<.GT.0.< GO TO 1000	JES2 1
	IR#7000105	DOUBL 69
	A#1.	DOUBL 70
	CALL AIJ%IR,IC,A<	DOUBL 71
	IR#IR&1	DOUBL 72
	CALL AIJ%IR,IC,A<	DOUBL 73
1000	CONTINUE	DOUBL 74
	RETURN	DOUBL 75
	END	DOUBL 76
	SUBROUTINE CUSTOM	CUSTO 1
	COMMON R,IADJ,WORK%50<,BIG	CUSTO 2
	DIMENSION R%600<	CUSTO 3
	IC#8000127	CUSTO 4
	DO 1000 I#1,2	CUSTO 5
	I1#47&%I-1<#508	CUSTO 6
	IF%R%I1&1<.GT.R%I1<<R%I1&1<#R%I1<- .01	CUSTO 7
	DO 500 J#1,3	CUSTO 8
	IC#IC&1	CUSTO 9
	IR#7000001	CUSTO 10
	A#R%499&%I-1<#9<-R%496&%I-1<#7<	CUSTO 11
	A#A/%50.-35.* %I-1<<	CUSTO 12
	A#A%#100.-70.*%I-1<-R%525&I#3<<&R%499&%I-1<#9<	CUSTO 13
	AVG#R%494&%I-1<#6<	CUSTO 14
	AVG1#R%497&%I-1<#8<	CUSTO 15
302	WR#AVG1&%100.-70.*%I-1<-R%525&I#3<<#AVG1-AVG/<%50.-35.*%I-1<<	CUSTO 16
	B#R%528&%I-1<#3<#R%I1<#WR	CUSTO 17
	IF%B<1,1,2	CUSTO 18
1	B#BIG	CUSTO 19
2	CALL AIJ%IR,IC,B<	CUSTO 20
	IR#7000015&J-I	CUSTO 21
	A#A-R%49<	CUSTO 22
	A#AMAX1%A,0.<	CUSTO 23
	CALL AIJ%IR,IC,A<	CUSTO 24
	IR#7000054&29*%I-1<&J	CUSTO 25
	A#-1.	CUSTO 26
500	CALL AIJ%IR,IC,A<	CUSTO 27
	DO 600 J#1,3	CUSTO 28
	IC#IC&1	CUSTO 29
	K#48&508*%I-1<	CUSTO 30
	A#R%K<#R%525&I#3<-P%524&I#3< <#WR	CUSTO 31
	A#-A	CUSTO 32
	IF%A<200,100,100	CUSTO 33
100	A#BIG	CUSTO 34
200	IR#7000001	CUSTO 35
	CALL AIJ%IR,IC,A<	CUSTO 36

	IR#7000088&IPLANT	SILAG 92
	CALL AIJ%IR,IC,A<	SILAG 93
	IR#7000100	SILAG 94
	A#1.	SILAG 95
1000	CALL AIJ%IR,IC,A<	SILAG 96
	CONTINUE	SILAG 97
	RETURN	SILAG 98
	END	SILAG 99
	SUBROUTINE DOUBLE	DOUBL 1
	DIMENSION R%600<	DOUBL 2
	COMMONR,IADJ,WORK%50<,BIG	DOUBL 3
	IF%IADJ.EQ.2< RETURN	DOUBL 4
	DO 1000 I#1,2	DOUBL 5
100	IF%R%535<<1,1,2	DOUBL 6
1	A#BIG	DOUBL 7
	GO TO 5	DOUBL 8
2	A#R%537<&R%538<&R%539<&R%540<&R%529<	DOUBL 9
	GO TO %3,4<,I	DOUBL 10
3	A#A-R%535<*&R%56<-R%52<<	DOUBL 11
	1&R%536<-R%560<<*&R%535<*&R%553</10.	JES23 1
	GO TO 5	DOUBL 13
4	A#A&R%536<-R%560<<*&R%535<*&R%554</10.	JES23 2
	IF %R%62<.EQ.0..AND.R%536<.GT.R%560<< GO TO 1	JES23 3
5	IC#8000125&I	DOUBL 16
	IR#7000001	DOUBL 17
	CALL AIJ%IR,IC,A<	DOUBL 18
C		DOUBL 19
C	PLANTING	DOUBL 20
C		DOUBL 21
	A#0.	DOUBL 22
	B#0.	DOUBL 23
	C#0.	DOUBL 24
	D#0.	DOUBL 26
	DO 6 K#1,3	DOUBL 27
	E#R%540&K<*&R%543&K<	DOUBL 28
	IF%E..LE.0.< GO TO 6	DOUBL 29
	E#1./E	DOUBL 30
	A#A&E	DOUBL 31
	B#B&R%540&K<*&E#R%546&K<	DOUBL 32
	C#AMAX1%C,E<	DOUBL 33
6	CONTINUE	DOUBL 34
	IF%C<7,7,8	DOUBL 35
7	D#BIG	DOUBL 36
	GO TO 10	DOUBL 37
8	IF%R%384<< 7,7,9	DOUBL 38
9	D#A/R%384<	DOUBL 39
	D#AMAX1%C,D<	DOUBL 40
10	IR#70000013	DOUBL 41
	A#B	DOUBL 42
	CALL AIJ%IR,IC,A<	DOUBL 43
	A#D	DOUBL 44
	IR#70000038	DOUBL 45
	CALL AIJ%IR,IC,A<	DOUBL 46
	GO TO %1100,11<,I	DOUBL 47
11	IF%R%62<<1001,1001,12	DOUBL 48
1001	IF %R%536<-R%560<< 13,13,1100	DOUBL 49
12	FAC#1.	DOUBL 50
	IF%R%61<.GT.0.< FAC#R%61</R%62<	DOUBL 51
	A#R%535<*&R%536<-R%560<</10.*FAC	DOUBL 52
	IR#7000062	JES23 4

IR#7000015&J-I
 A#P%49<
 CALL AIJ%IR,IC,A<
 IR#7000109&3#%I-1<&J
 A#1.
 CALL AIJ%IR,IC,A<
 600 CONTINUE
 1000 CONTINUE
 A#R%509<-R%504<</15.*%30.-R%534<<&R%509<
 A#A-R%49<
 B#AMAX1%A,0.<

C
 C WHEAT CUSTOM LABOR'
 C

IC#IC&1
 BD#R%507<-R%502<
 BD#BD/15.*%30.-R%534<<&R%507<
 A#R%45<#BD
 IR#7000001
 CALL AIJ%IR,IC,A<
 IR#7000013
 CALL AIJ%IR,IC,B<
 IR#7000099
 A#-1.
 CALL AIJ%IR,IC,A<
 IC#IC&1
 IF %R%45<.LT.R%559<< R%559<#R%45<-.05
 IR#7000001
 A#BD#R%559<
 A#%-A<&BD#R%533<
 CALL AIJ%IR,IC,A<
 IR#7000013
 A#R%49<
 CALL AIJ%IR,IC,A<
 IR#7000116
 A#1.

2000 CALL AIJ%IR,IC,A<
 CONTINUE
 DO 3000 I#1,2
 IC#IC&1

3001 IF%R%510<< 3001,3001,3002

3001 A#BIG
 GO TO 3003
 3002 A#R%46<#R%510<
 3003 IR#7000001

CALL AIJ%IR,IC,A<
 A#-1.
 IR#7000103&I-1

CALL AIJ%IR,IC,A<
 A#R%511<-R%50<
 A#AMAX1%0.,A<
 IR#7000013&I

CALL AIJ%IR,IC,A<
 A#R%488<
 IR#7000049&I
 CALL AIJ%IR,IC,A<

3000 CONTINUE
 RETURN
 END
 SUBROUTINE BCCOMB

CUSTO 37
 CUSTO 38
 CUSTO 39
 CUSTO 40
 CUSTO 41
 CUSTO 42
 CUSTO 43
 CUSTO 44
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 CUSTO 46
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 CUSTO 48
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 CUSTO 61
 CUSTO 62
 CUSTO 63
 CUSTO 64
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 JES23 1
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 CUSTO 89
 CUSTO 90
 CUSTO 91
 CUSTO 92
 CUSTO 93
 CUSTO 94
 BCCOM 1

COMMON R,IADJ,WORK%50<,BIG	BCCOM	2
DIMENSION R%600<	BCCOM	3
CAPC#R%497<&R%497<-R%494<</50.*%R%528<-100.0<	BCCOM	4
CAPB#R%505<&R%505<-R%500<</15.*%R%531<-30.<	BCCOM	5
CAPBC#R%506<&R%506<-R%501<</15.*%R%531<-30.<	BCCOM	6
CAPCB#R%498<&R%498<-R%495<</50.*%R%528<-100.<	BCCOM	7
CAPC#2.*R%497<-CAPC	BCCOM	8
CAPB#2.*R%505<-CAPB	BCCOM	9
CAPBC#2.*R%506<-CAPBC	BCCOM	10
CAPCB#2.*R%498<-CAPCB	BCCOM	11
RATC#-1.	BCCOM	12
RATB#-1.	BCCOM	13
AC#R%499<-R%496<	BCCOM	14
AC#AC/50.*%100.-R%528<<&R%499<	BCCOM	15
AC#AMAX1%0.,AC<	BCCOM	16
AB#R%508<-R%503<</15.*%30.-R%531<<&R%508<	BCCOM	17
AB#AMAX1%0.,AB<	BCCOM	18
IF%CAPC.GT.0.< GO TO 1	BCCOM	19
RATC#1.	BCCOM	20
1 IF%CAPCB.GT.0.< GO TO 2	BCCOM	21
RATC#0.	BCCOM	22
2 IF%RATC<3,4,4	BCCOM	23
3 RATC#CAPCB/CAPC	BCCOM	24
4 IF%CAPB.GT.0.< GO TO 5	BCCOM	25
RATB#1.	BCCOM	26
5 IF%CAPBC.GT.0.< GO TO 6	BCCOM	27
RATB#0.	BCCOM	28
6 IF%RAIB<7,8,8	BCCOM	29
7 RATB#CAPBC/CAPB	BCCOM	30
8 DO 9 I#1,3	BCCOM	31
IC#8000143&I	BCCOM	32
A#R%530<#CAPBC	BCCOM	33
A#AMAX1%0.,A<	BCCOM	34
IR#7000001	BCCOM	35
CALL AIJ%IR,IC,A<	BCCOM	36
IR#7000013&I	BCCOM	37
CALL AIJ%IR,IC,AB<	BCCOM	38
IR#7000049&I	BCCOM	39
A#R%486<	BCCOM	40
CALL AIJ%IR,IC,A<	BCCOM	41
IR#7000083&I	BCCOM	42
A#-RATB	BCCOM	43
CALL AIJ%IR,IC,A<	BCCOM	44
A#1.	BCCOM	45
IR#7000093&I	BCCOM	46
CALL AIJ%IR,IC,A<	BCCOM	47
IR#7000106&I	BCCOM	48
9 CALL AIJ%IR,IC,A<	BCCOM	49
DO 10 I#1,3	BCCOM	50
IC#IC&I	BCCOM	51
IR#7000001	BCCOM	52
A#R%527<#CAPCB	BCCOM	53
A#AMAX1%0.,A<	BCCOM	54
CALL AIJ%IR,IC,A<	BCCOM	55
IR#7000014&I	BCCOM	56
CALL AIJ%IR,IC,AL<	BCCOM	57
IR#7000050&I	BCCOM	58
A#R%486<	BCCOM	59
CALL AIJ%IR,IC,A<	BCCOM	60
IR#7000054&I	BCCOM	61

```

A#-RATC
CALL AIJ%IR,IC,A<
IR#7000094&I
A#1.
10 CALL AIJ%IR,IC,A<
RETURN
END
SUBROUTINE RESERV
COMMON R, IADJ,WORK%50<,BIG
DIMENSION R%600<
IRO#7000001

```

```

A#1.
D4#.004
IC#8000149
IR#7000005
DO 3 I#1,13
IC#IC&I
K#354
IF%I.GT.8< K#376
IR#IRE&I
A#R%307&I<*R%327&I<*R%K&I<
A#A&D4
IF %I.NE.13< GO TO 8
DO 7 J#1,2

```

```

A#R%305&J<*R%325&J<*R%352&J<&A
7 CONTINUE

```

```

8 B#0.
CALL BNDD%IC,A,B<
A#1.
IF%R%68<<2,2,1
1 A1#-R%68<
CALL AIJ%IRO,IC,A1<
2 CALL AIJ%IR,IC,A<
3 CONTINUE

```

```

A#1.
IR#7000057
IRO#7000001
DO 6 I#1,2
IC#IC&I
IR#IRE&I

```

```

IF%R%57-I#2<<5,5,4
4 A1#-R%57-I#2<
CALL AIJ%IRO,IC,A1<
5 CALL AIJ%IR,IC,A<
6 CONTINUE
RETURN
END

```

```

SUBROUTINE ARTSIL

```

```

IROW#7000087
ICOL#8000179
IR#7000001
DO 1 I#1,6

```

```

IROW#IROW&I
ICOL#ICOL&I
A#9999999.
CALL AIJ%IR,ICOL,A<

```

```

A#-1.
1 CALL AIJ%IROW,ICOL,A<
RETURN
END

```

```

BCCOM 62
BCCOM 63
BCCOM 64
BCCOM 65
BCCOM 66
BCCOM 67
BCCOM 68
RESER 1
RESER 2
RESER 3
RESER 4
RESER 5
JES23 1
RESER 6
RESER 7
RESER 8
RESER 9
RESER 10
RESER 11
RESER 12
RESER 13
JES23 2
RESER 14
RESER 15
JES23 3
RESER 18
RESER 19
RESER 20
RESER 21
RESER 22
RESER 23
RESER 24
RESER 25
RESER 26
RESER 27
RESER 28
RESER 29
RESER 30
RESER 31
RESER 32
RESER 33
RESER 34
RESER 35
RESER 36
RESER 37
RESER 38
RESER 39
ARTSI 1
ARTSI 2
ARTSI 3
ARTSI 4
ARTSI 5
ARTSI 6
ARTSI 7
ARTSI 8
ARTSI 9
ARTSI 10
ARTSI 11
ARTSI 12
ARTSI 13

```


SUBROUTINE HARVES	HARVE	1
COMMON R,IADJ,WORK%50<,BIG	HARVE	2
DIMENSION R%600<	HARVE	3
IC#8000164	HARVE	4
DO 1 I#1,2	HARVE	5
B#R%499&I-1<#9<&R%499&I-1<#9<-R%496&I-1<#7<<	HARVE	6
1 /%50.-%I-1<#35.<%100.-%I-1<#70.	HARVE	7
1-R%525&I#3<<	HARVE	8
DO 1 J#1,3	HARVE	9
IC#IC&1	HARVE	10
A#0.	HARVE	11
WR#R%497&I-1<#8<&R%497&I-1<#8<-R%494&I-1<#6<</%50.-%I-1<#35.<	JES23	1
1%100.-%I-1<#70.-R%528&I-1<#3< <	HARVE	13
A#R%524&I#3<#WR	HARVE	14
IR#7000001	HARVE	15
CALL AIJ%IR,IC,A<	HARVE	16
IR#7000015-IEJ	HARVE	17
CALL AIJ%IR,IC,B<	HARVE	18
A#-1.	HARVE	19
IR#7000054&JE&I-1<#29	HARVE	20
CALL AIJ%IR,IC,A<	HARVE	21
A#R%486<	HARVE	22
IR#7000051-IEJ	HARVE	23
CALL AIJ%IR,IC,A<	HARVE	24
IR#7000109&3%I-1<&J	HARVE	25
A#1.	HARVE	26
1 CALL AIJ%IR,IC,A<	HARVE	27
DO 2 I#1,2	HARVE	28
IC#IC&1	HARVE	29
A#0.	HARVE	30
IFR%493<.GT.0.< A#R%315&I<#R%335&I<#R%411<	HARVE	31
C#0.	JES23	2
CALL BNDD%IC,A,C<	HARVE	32
IR#7000013&I	HARVE	33
A#R%511<	HARVE	34
CALL AIJ%IR,IC,A<	HARVE	35
IR#7000001	HARVE	36
A#R%525<#R%510<	HARVE	37
CALL AIJ%IR,IC,A<	HARVE	38
A#R%487<	HARVE	39
IR#7000049&I	HARVE	40
CALL AIJ%IR,IC,A<	HARVE	41
A#-1.	HARVE	42
IR#7000102&I	HARVE	43
2 CALL AIJ%IR,IC,A<	HARVE	44
IC#IC&1	HARVE	45
IR#7000001	HARVE	46
A#R%533<#R%507<&R%507<-R%502<</15.*%30.-R%534<<<	JES4	1
CALL AIJ%IR,IC,A<	HARVE	48
IR#7000013	HARVE	49
A#R%509<-R%504<	HARVE	50
A#A/15.*%30.-R%534<<<&R%509<	HARVE	51
CALL AIJ%IR,IC,A<	HARVE	52
IR#7000099	HARVE	53
A#-1.	HARVE	54
CALL AIJ%IR,IC,A<	HARVE	55
IC#8000173	HARVE	56
IR#7000116	HARVE	57
A#1.	HARVE	58
CALL AIJ%IR,IC,A<	HARVE	59

1 DO 4 I#4,13
 I1#I1&1
 I2#I2 &1
 I3#I3&1
 A#R%I1<*R%I2<*R%I3<&D3
 IF%I-5< 2,2,3

RHS1 31
 RHS1 32
 RHS1 33
 RHS1 34

2 S#SEA
 GO TO 4

JES23 5
 RHS1 36
 RHS1 37
 RHS1 38

3 IR#IE7000000
 CALL RHS%IR,A<

RHS1 39
 RHS1 40

4 CONTINUE
 I1#315

RHS1 41
 RHS1 42

I2#335
 I3#384
 DO 6 I#14,18

RHS1 43
 RHS1 44
 RHS1 45

I1#I1&1
 IR#7000000&I

RHS1 46
 RHS1 47

I2#I2&1
 I3#I3&1

RHS1 48
 RHS1 49

A#R%I1<*R%I2<*R%I3<
 IF%I-18<6,5,5

RHS1 50
 RHS1 51

5 A#AES
 6 CALL RHS%IR,A<

RHS1 52
 RHS1 53

C
 C SPRING LAND PREP
 C

RHS1 54
 RHS1 55

T#R%406<
 I1#307

RHS1 56
 RHS1 57

I2#327
 DO 7 I#19,24

RHS1 58
 RHS1 59

I1#I1&1
 I2#I2&1

RHS1 60
 RHS1 61

A#R%I1<*R%I2<*T
 IR#IE7000000

RHS1 62
 RHS1 63

7 CALL RHS%IR,A<

RHS1 64
 RHS1 65

C
 C PLANTING HOURS
 C

RHS1 66
 RHS1 67

I1#307
 I2#327

RHS1 68
 RHS1 69

I3#345
 DO 8 I#25,30

RHS1 70
 RHS1 71

IR#7000000&I
 I1#I1&1

RHS1 72
 RHS1 73

I2#I2&1
 I3#I3&1

RHS1 74
 RHS1 75

A#R%I1<*R%I2<*R%I3<
 8 CALL RHS%IR,A<

RHS1 76
 RHS1 77

C
 C POST PLANT HOURS
 C

RHS1 78
 RHS1 79

T#R%407<
 I1#307

RHS1 80
 RHS1 81

I2#327
 DO9 I#31,38

RHS1 82
 RHS1 83

IR#IE7000000
 I1#I1&1

RHS1 84
 RHS1 85

I2#I2&1
 A#R%I1<*R%I2<*T

RHS1 86
 RHS1 87

9 CALL RHS%IR,A<

RHS1 88
 RHS1 89
 RHS1 90

	DD 1000 I#1,2	HARVE 60
	K#48&508*I-1<	HARVE 61
	DD 500 J#1,3	HARVE 62
	IC#IC&1	HARVE 63
301	AVG#R%495&I-1<*6<	HARVE 64
	AVG1#R%498&I-1<*8<	HARVE 65
302	WR#AVG1&100.-70.*%I-1<-R%525&I#3<<*&AVG1-AVG</%50.-35.*%I-1<<	JES17 1
	A#R%K<*R%525&I#3<-R%524&I#3< <*WR	HARVE 67
	A#-A	HARVE 68
	IF %A< 200,100,100	HARVE 69
100	A#BIG	HARVE 70
200	IR#7000001	HARVE 71
	CALL AIJ%IR,IC,A<	HARVE 72
	IR#7000015&J-I	HARVE 73
	A#R%49<	HARVE 74
	CALL AIJ%IR,IC,A<	HARVE 75
	IR#7000094&12*%I-1<&J	HARVE 76
	A#1.	HARVE 77
	CALL AIJ%IR,IC,A<	HARVE 78
	IR#93&J&7000000	HARVE 79
	IF%I.EQ.2< CALL AIJ%IR,IC,A<	HARVE 80
500	CONTINUE	HARVE 81
1000	CONTINUE	HARVE 82
	RETURN	HARVE 83
	END	HARVE 84
	SUBROUTINE RHS1	RHS1 1
	DIMENSION R%600<	RHS1 2
	COMMON R,IADJ,WORK%50<,BIG	RHS1 3
	COMMON/BND/BNDS%70,3<,IBD2,IRHSF	CHNG 10
	IRHSF=0	CHNG 20
	IF%IADJ.EQ.2< GO TO 1000	RHS1 4
	D1#.001	JES23 1
	D2#.002	JES23 2
	D3#.003	JES23 3
C		RHS1 5
C	LAND	RHS1 6
C		RHS1 7
	IR#7000002	RHS1 8
	A#R%28<&R%561<&D1	JES23 4
	CALL RHS%IR,A<	RHS1 10
	IR#IRE1	RHS1 11
	A#R%2<	JES22 1
	CALL RHSADJ%IR,A<	RHS1 13
	A#R%4<	RHS1 14
	IR#IRE1	RHS1 15
	CALL RHSADJ%IR,A<	RHS1 16
	IR#IRE1	RHS1 17
	A#R%5<	RHS1 18
	CALL RHSADJ%IR,A<	RHS1 19
	IR#7000101	RHS1 20
	A#R%550<	RHS1 21
	CALL RHSADJ%IR,A<	RHS1 22
C		RHS1 23
C	LABOR	RHS1 24
C		RHS1 25
C		RHS1 26
	S#0.	RHS1 27
	I1#305	RHS1 28
	I2#325	RHS1 29
	I3#352	RHS1 30

	IR#7000000&I	RHS1	151
	CALL RHS%IR,A<	RHS1	152
18	CONTINUE	RHS1	153
C		RHS1	154
C	SILAGE PLANTING	RHS1	155
C		RHS1	156
	I1#7	RHS1	157
	DO 20 I#88,93	RHS1	158
	I1#I1&1	RHS1	159
	IF%R%I1<<20,20,19	RHS1	160
19	A#-R%I1<	RHS1	161
	IR#IE7000000	RHS1	162
	CALL RHS%IR,A<	RHS1	163
20	CONTINUE	RHS1	164
C		RHS1	165
C	STORAGE	RHS1	166
C		RHS1	167
	IR#7000064	RHS1	168
	A#R%34<	RHS1	169
	CALL RHS%IR,A<	RHS1	170
	IR#7000102	JES1	1
	A#R%558<	JES1	2
	CALL RHS%IR,A<	JES1	3
	IR#7000100	RHS1	171
	S#0	RHS1	172
	DO 21I#8,13	RHS1	173
21	S#SER%I<	RHS1	174
	A#AMAX1%S,R%3<<	RHS1	175
	CALL RHSADJ%IR,A<	RHS1	176
	IF %R%563<.GT.0.< GO TO 291	JES2	1
	IR#7000104	RHS1	177
	DO 29 I#1,2	RHS1	178
	A#R%28<ER%561<	RHS1	179
	IR#IR&1	RHS1	180
29	CALL RHS%IR,A<	RHS1	181
291	CONTINUE	JES10	1
	IF %R%491<.EQ.0.< GO TO 30	RHS1	182
	IR#7000106	RHS1	183
	DO 25 I#1,3	RHS1	184
	HR#R%315&I<*R%335&I<*R%412<	RHS1	185
	IR#IR&1	RHS1	186
25	CALL RHS%IR,HR<	RHS1	187
30	IF %R%489<.EQ.0.< GO TO 27	RHS1	188
	IR#7000109	RHS1	189
	DO 26 J#1,3	RHS1	190
	A#R%316&J<*R%336&J<*R%321&J<	RHS1	191
	IR#IR&1	RHS1	192
26	CALL RHS%IR,A<	RHS1	193
27	IF %R%490<.EQ.0.< GO TO 31	RHS1	194
	IR#7000112	RHS1	195
	DO 28 J#1,3	RHS1	196
	A#R%315&J<*R%335&J<*R%412<	RHS1	197
	IR#IR&1	RHS1	198
28	CALL RHS%IR,A<	RHS1	199
31	A#0.	RHS1	200
	IF %R%492<.GT.0.< A#R%315<*R%335<*R%408<	RHS1	201
	IR#7000116	RHS1	202
	CALL RHS%IR,A<	RHS1	203
	RETURN	RHS1	204
1000	IR#7000003	JES15	1

C
C

FALL LAND PREP

I1#315

I2#335

I3#400

DO 10 I#39,43

I1#I1&1

I2#I2&1

I3#I3&1

A#R%I1<*R%I2<*R%I3<

IR#I&7000000

IF%I.EQ.43< GO TO 10

CALL RHS%IR,A<

10 CONTINUE

DO 11 J#1,2

11 A#A&R%305&J<*R%325&J<

CALL RHS%IR,A<

C

TRACTOR HOURS

I1#307

I2#327

MAX#49

I3#376

MIN#44

DO 13 J#1,2

DO 12 I#MIN,MAX

I1#I1&1

I2#I2&1

I3#I3&1

A#R%I1<*R%I2<*R%I3<&D2

IR#7000000&I

CALL RHS%IR,A<

12 CONTINUE

I1#315

I2#335

I3#394

MAX#53

MIN#50

13 CONTINUE

C

C

DRYING CAPACITY

C

I1#315

DO 16 I#60,63

A#R%61<*R%63<*R%I1&I-59<

IR#I&7000000

16 CALL RHS%IR,A<

C

C

CORN AND BEAN COMBINE

C

I1#315

I2#335

I3#320

I#R%4I2<

DO 18 I#94,97

IF%R%491<.EQ.0.< GO TO 18

I1#I1&1

I2#I2&1

I3#I3&1

A#R%I1<*R%I2<*T

T#R%I3&1<

RHS1	91
RHS1	92
RHS1	93
RHS1	94
RHS1	95
RHS1	96
RHS1	97
RHS1	98
RHS1	99
RHS1	100
RHS1	101
RHS1	102
RHS1	103
RHS1	104
RHS1	105
RHS1	106
RHS1	107
RHS1	108
RHS1	109
RHS1	110
RHS1	111
RHS1	112
RHS1	113
RHS1	114
RHS1	115
RHS1	116
RHS1	117
RHS1	118
JES23	6
RHS1	120
RHS1	121
RHS1	122
RHS1	123
RHS1	124
RHS1	125
RHS1	126
RHS1	127
RHS1	128
RHS1	129
RHS1	130
RHS1	131
RHS1	132
RHS1	133
RHS1	134
RHS1	135
RHS1	136
RHS1	137
RHS1	138
RHS1	139
RHS1	140
RHS1	141
RHS1	142
RHS1	143
RHS1	144
RHS1	145
RHS1	146
RHS1	147
RHS1	148
RHS1	149
RHS1	150

```

RETURN
END
SUBROUTINE RHS%IR,A<
COMMON/BND/BNDS%70,3<,IBD2,IRHSF
COMMON R,IADJ,WORK%50<,BIG
DIMENSION R%600<
NW#IADJ&6
IF%IRHSF .NE. 0< GO TO 1
IRHSF#1
WRITE%NW,2<
2 FORMAT%3HRHS<
IF %IADJ.EQ.2< WRITE %NW,4<
4 FORMAT %@ MODIFY@<
1 WRITE%NW,3< IR,A
3 FORMAT%4X,1HR,9X,I7,3X,F12.4<
RETURN
END
SUBROUTINE AIJ%I,J,A<
WRITE%7,1< J,I,A
1 FORMAT%4X,I7,3X,I7,3X,F12.4<
RETURN
END
SUBROUTINE RHSADJ%IR,A<
COMMON/BND/BNDS%70,3<,IBD2,IRHSF
COMMON R,IADJ,WORK%50<,BIG
DIMENSION R%600<
IF%IRHSF .NE. 0< GO TO 1
IRHSF#1
WRITE%7,2<
2 FORMAT%3HRHS<
1 WRITE%7,3< IR,A
3 FORMAT%4X,1HR,8X,1H*,I7,3X,F12.4<
RETURN
END
SUBROUTINE FINISH%IK<
COMMON/BND/BNDS%70,3<,IBD2,IRHSF
K#7
IF %IK.EQ.2< K#8
WRITE%K,1<
1 FORMAT%6HBOUND$<
IF %IK.EQ.2< WRITE%K,10<
10 FORMAT %@ MODIFY@<
DO 2 I#1,IBD2
IC#BNDS%I,1<
IF %IK.EQ.2< GO TO 20
IF %IC.EQ.8000002.OR.IC.EQ.8000003< GO TO 23
20 IF %BNDS%I,2<.EQ.BNDS%I,3<< GO TO 22
IF %BNDS%I,2<.LE.0.< GO TO 21
WRITE%K,3< IC,BNDS%I,2<
21 WRITE%K,4< IC,BNDS%I,3<
GO TO 2
22 WRITE%K,6< IC,BNDS%I,3<
GO TO 2
23 IF %BNDS%I,2<.EQ.BNDS%I,3<< GO TO 25
IF %BNDS%I,2<.LE.0.< GO TO 24
WRITE%K,7< IC,BNDS%I,2<
24 WRITE%K,8< IC,BNDS%I,3<
GO TO 2
25 WRITE%K,9< IC,BNDS%I,3<
7 FORMAT%1X,2HLO,1X,1HB,8X,1H*,I7,3X,F12.4<

```

CHNG 10
CHNG 20

CHNG 10
CHNG 20

A#R%564<
CALL RHS%IR,A<
IR#IR&1
A#R%565<

JES15 2
JES15 3
JES15 4
JES15 5
JES15 6

CALL RHS%IR,A<
IR#IR&1
A#R%551<
CALL RHS%IR,A<

RHS1 209
RHS1 210
RHS1 211

IR#7000101
A#R%552<
CALL RHS%IR,A<
IR#7000100

RHS1 212
RHS1 213
RHS1 214
RHS1 215

S#0.
DO 24 I#8,13

RHS1 216
RHS1 217

24 S#SER%I<
A#AMAX1%S,R%557<<

RHS1 218
RHS1 219

CALL RHS%IR,A<
RETURN
END

RHS1 220
RHS1 221
RHS1 222

SUBROUTINE START%KL<
GO TO %100,200<,KL

100 NROW#116

WRITE%7,1<
FORMAT %@NAME@,10X,@MATRIX@<

WRITE%7,11<
FORMAT%4HROWS<
K#7000001

WRITE %7,6< K
FORMAT %1X,@Na,2X,I7<
DO 2 I#2,NROW

K#7000000&I

WRITE %7,3< K

FORMAT %1X,@La,2X,I7<
WRITE%7,4<
FORMAT%7HCOLUMNS <

RETURN

200 WRITE%8,1<

WRITE%8,4<

WRITE%8,5<

5 FORMAT %@ MODIFY@<

RETURN

END

SUBROUTINE BNDADJ%ICOL,A,B<
COMMON/BND/BNDS%70,3<,IBD2,IRHSF

DIMENSION R%600<
COMMON R,IADJ,WORK%50<,BIG

IBD2#IBD2&1

BNDS%IBD2,1<#ICOL

BNDS%IBD2,2<#B

BNDS%IBD2,3<#A

RETURN

END

SUBROUTINE BNDD%ICOL,A,B<
COMMON/BND/BNDS%70,3<,IBD2,IRHSF

BND 1

COMMON R,IADJ,WORK%50<,BIG
DIMENSION R%600<

IBD2#IBD2&1

BNDS%IBD2,1<#ICOL

BNDS%IBD2,2<#B

BNDS%IBD2,3<#A

CALL RPT3	BOSS	12
CALL RPT4	BOSS	13
CALL RPT56	BOSS	14
CALL RPT7	BOSS	15
CALL RPT8	BOSS	16
CALL RPT9	BOSS	17
CALL RPT10	BOSS	18
CALL RPT11	BOSS	19
CALL RPT12	BOSS	20
CALL RPT14	JEF34	1
CALL RPT13	BOSS	21
STOP	BOSS	22
END	BOSS	23
SUBROUTINE VIVDM	VIVDM	1
REAL*8 IDENT	CHNG	10
COMMON/INT1/R%600<,RSOL%116,2<,RCOL%186,2<,BCSOL%2,46,2<,HEAD%10<,JEF18	JEF18	1
1ACHR%3<,ACRES%2,11<,PROD%2,11<,PRICE%11<,SOL%2,16<,VC%2,12,9<,	COMDI	2
2AVCT%2,9<,UVCT%2,3<,FCT%2,4<,TCSTS%2<,PROFT%2<,AVC%2,8<,AVY%2,8<,	COMDI	3
3AVS%2,8<,AVRT%2,8<,AMO%2,2<,COMBH%2,3<,TACR%2,3<,TCOMB%2<,RHS%41<	COMDI	4
4,AWORK%12,18<,BWORK%12,18<,CLPRP,SLPRP,WLPRP,DCPRP,CCLAB,SCLAB,	COMDI	5
5WCLAB,IPAGE,IOUT,INPT,IRNK,CTA%2,3,3<,STA%2,3,3<,TCOMBI%2<,IO	COMDI	6
6,RSHAD%83,2<,NMAX,IDENT,CHLAB,SHLAB,WHLAB,SICLAB	JEF27	1
7,AWRK%6,18<,BWRK%6,18<,SWRK%6,12<	JEF34	1
INTEGER ROW,COL	VIVDM	3
REAL*8 SEC /@SECTION@/, ROWS /@1 - ROWS@/, COLU/@2 - COLU@/,	VIVDM	4
1 EXIT /@EXIT - T@/,	VIVDM	5
5 NUMBER /@NUMBER@/, BLANK /@ @/, REVISE /@REVISE B@/, X%16<	VIVDM	6
REAL MINUS /@-@/	VIVDM	7
CALL REREAD		
NROW#117	VIVDM	10
NCOL#186	VIVDM	11
LP#1	VIVDM	12
INI#2	VIVDM	13
C LOOK FOR THE ROW SECTION HEADER.	VIVDM	14
1 READ %IN1,2,END#3< X	VIVDM	15
2 FORMAT %1X,16A8<	VIVDM	16
IF %X%1<.EQ.SEC .AND. X%2<.EQ.ROWS< GO TO 5	VIVDM	17
GO TO 1	VIVDM	18
3 WRITE %6,4< IN1	VIVDM	19
4 FORMAT%@ ROW VALUES AND PRICES NOT FOUND ON FT@,I2,@F001@<	VIVDM	20
STOP	VIVDM	21
C READ THE ROW DATA.	VIVDM	22
5 READ %IN1,2,END#9< X	VIVDM	23
IF %X%1<.EQ.SEC .AND. X%2<.EQ.COLU< GO TO 20	VIVDM	24
IF %X%1<.EQ.NUMBER .OR. X%1<.EQ.BLANK< GO TO 5	VIVDM	25
READ %99,7< ROW,VALUE,VS,PRYCE,PS		
7 FORMAT %11X,16,21X,F15.5,A1,31X,F15.5,A1<	VIVDM	30
IF %VS.EQ.MINUS< VALUE=-VALUE	VIVDM	31
IF %PS.EQ.MINUS< PRYCE=-PRYCE	VIVDM	32
IF %ROW.EQ.1< GO TO 5	VIVDM	33
IF %ROW.GT.NROW< GO TO 9	VIVDM	34
RSOL%ROW,LP<#VALUE	VIVDM	35
IF %VALUE.EQ.0< RSOL%ROW,LP<#-PRYCE	VIVDM	36
GO TO 5	VIVDM	37
9 WRITE %6,10< IN1	VIVDM	38
10 FORMAT%@ ATTEMPT I READ TOO MANY ROWS FROM FT@,I2,@F001@<	VIVDM	39
STOP	VIVDM	40
C READ THE COLUMN DATA.	VIVDM	41
20 READ %IN1,2,END#24< X	VIVDM	42
IF %X%1<.EQ.NUMBER .OR. X%1<.EQ.BLANK< GO TO 20	VIVDM	43


```

8 FORMAT%1X,2HUP,1X,1HB,8X,1H*,I7,3X,F12.4<
9 FORMAT%1X,2HFX,1X,1HB,8X,1H*,I7,3X,F12.4<
2 CONTINUE
3 FORMAT%1X,2HLO,1X,1HB,9X,I7,3X,F12.4<
4 FORMAT%1X,2HUP,1X,1HB,9X,I7,3X,F12.4<
6 FORMAT%1X,2HFX,1X,1HB,9X,I7,3X,F12.4<
WRITE%K,5<
5 FORMAT%6HENDATA<
RETURN
END

```

```

/*
//LKED.SYSLMOD DD DSN=UKU.0AEC01.LOAD,UNIT=3330,VOL=SER=IRCC77,
//DISP=(NEW,KEEP)
//LKED.SYSIN DD *
NAME B9(R)

```

["(OLD, KEEP)" show
the second, third

```

/*
//S3 EXEC PLIXCL
//PLI.SYSIN DD *
CHANGE: PROC OPTIONS(MAIN); /*CHANGE THE RECORDS FROM U TO FB FORMAT*/
DCL A INPUT, B OUTPUT, STR CHAR (133) VARYING;
ON ENDFILE (A) GO TO OUT;
I=0;
DO I = 1 TO 1500;
READ FILE (A) INTO (STR);
PUT FILE(B) EDIT (STR) (A(133));
PUT FILE (MPSOUT) EDIT (STR) (A(133));
END;
OUT: PUT EDIT ('THE NUMBER OF RECORDS TRANSLATED IS',I)(A,F(5));
RETURN;
END;

```

PL1	10
PL1	20
PL1	30
PL1	40
PL1	50
PL1	60
PL1	70
PL1	80
PL1	100
PL1	110
PL1	120
PL1	130

```

/*
//LKED.SYSLMOD DD DSN=UKU.0AEC01.LOAD,UNIT=3330,
//VOL=REF=*.S1.LKED.SYSLMOD,DISP=OLD
//LKED.SYSIN DD *
NAME CHANGE(R)

```

```

/*
//S4 EXEC FTG1CL,PARM.FORT=BCD,TIME=1
//FORT.SYSIN DD *
REAL#8 IDENT
COMMON/INT1/R%600<,RSOL%116,2<,RCOL%186,2<,BCSOL%2,46,2<,HEAD%10<,

```

CHNG	10
JEF18	1
COMDI	2
COMDI	3
COMDI	4
COMDI	5
COMDI	6
JEF27	1
JEF34	1
COMMN	1
COMMN	2
JEF8	1
JEF34	1
BOSS	4
BOSS	5
BOSS	6
BOSS	7
BOSS	8
BOSS	9
BOSS	10
BOSS	11
JEF21	1

100	CONTINUE	INITL	7
	IO#6	INITL	8
	INPT#1	INITL	9
	IRNK#2	INITL	10
	RETURN	INITL	11
	END	INITL	12
	SUBROUTINE READ	READ	1
	REAL#8 IDENT	CHNG	10
	COMMON/INT1/R%600<,RSOL%116,2<,RCOL%186,2<,BCSOL%2,46,2<,HEAD%10<,JEF18		1
	1ACHR%3<,ACRES%2,11<,PROD%2,11<,PRICE%11<,SOL%2,16<,VC%2,12,9<,COMDI		2
	2AVCT%2,9<,UVCT%2,3<,FCT%2,4<,TCSTS%2<,PROFT%2<,AVC%2,8<,AVY%2,8<,COMDI		3
	3AVS%2,8<,AVRT%2,8<,AMO%2,2<,COMBH%2,3<,TACR%2,3<,TCOMB%2<,RHS%41<COMDI		4
	4,AWORK%12,18<,BWORK%12,18<,CLPRP,SLPRP,WLPRP,DCPRP,CCLAB,SCLAB,COMDI		5
	5WCLAB,IPAGE,IOU,INPT,IRNK,CTA%2,3,3<,BTA%2,3,3<,TCOMBI%2<,IOCOMDI		6
	6,RSHAD%83,2<,NMAX,IDENT,CHLAB,SHLAB,WHLAB,SICLABJEF27		1
	7,AWRK%6,18<,BWRK%6,18<,SWRK%6,12<JEF34		1
	READ%INPT,1<IDENT,%HEAD%I,I#1,10<,MAXREAD		3
1	FORMAT%47,10A4,15<READ		4
	READ%INPT,2<%R%I,I#1,MAX<READ		5
2	FORMAT%8F16,2<READ		6
	IF %R%34<.GT.1000.<GO TO 100JEF23		1
	R%34<#R%34<*1000.0READ		7
100	NMAX#MAXJEF23		2
	RETURNREAD		9
	ENDREAD		10
	SUBROUTINE COMPTCOMPT		1
	REAL#8 IDENTCHNG		10
	COMMON/INT1/R%600<,RSOL%116,2<,RCOL%186,2<,BCSOL%2,46,2<,HEAD%10<,JEF18		1
	1ACHR%3<,ACRES%2,11<,PROD%2,11<,PRICE%11<,SOL%2,16<,VC%2,12,9<,COMDI		2
	2AVCT%2,9<,UVCT%2,3<,FCT%2,4<,TCSTS%2<,PROFT%2<,AVC%2,8<,AVY%2,8<,COMDI		3
	3AVS%2,8<,AVRT%2,8<,AMO%2,2<,COMBH%2,3<,TACR%2,3<,TCOMB%2<,RHS%41<COMDI		4
	4,AWORK%12,18<,BWORK%12,18<,CLPRP,SLPRP,WLPRP,DCPRP,CCLAB,SCLAB,COMDI		5
	5WCLAB,IPAGE,IOU,INPT,IRNK,CTA%2,3,3<,BTA%2,3,3<,TCOMBI%2<,IOCOMDI		6
	6,RSHAD%83,2<,NMAX,IDENT,CHLAB,SHLAB,WHLAB,SICLABJEF27		1
	7,AWRK%6,18<,BWRK%6,18<,SWRK%6,12<JEF34		1
	COMMON/INT2/TACRE%3,6,4<,TPROD%2,6,4<,STACR%2,4<,STPRD%2,4<,COMMN		1
	1APRP%3,15<,PPLNT%10<,DD%41<,DDD%41<,SHAD%41<,TAB%16,8<,TABB%16,6<COMMN		2
	2,SPLNT%6<,WHAR,SHAR%2<,DCHARJEF8		1
	3,TAB%16,9<JEF34		1
	DIMENSION WORK%14<,WAC%2,3<JEF34		1
C	CORN ACRES PER HOURCOMPT		5
	ACHR%1<#R%497<#R%497<-R%494<</50.*%100.-R%528<<COMPT		6
	CAPCB#R%498<-R%498<-R%495<</50.*%R%528<-100.<COMPT		7
C	SOYBEANS ACRES PER HOURCOMPT		8
	ACHR%2<#R%505<#R%505<-R%500<</15.*%30.-R%531<<COMPT		9
	CAPBC#R%506<-R%506<-R%501<</15.*%R%531<-30.<COMPT		10
C	WHEAT ACRES PER HOURCOMPT		11
	CNT#0.COMPT		12
	AVG#0.COMPT		13
	DO 99 I#522,523COMPT		14
	AVG#AVG&R%I<COMPT		15
	IF %R%I<.GT.0.<CNT#CNT&1.COMPT		16
99	CONTINUECOMPT		17
	IF %CNT.CT.0.<AVG#AVG/CNTCOMPT		18
	ACHR%3<#R%507<#R%507<-R%502<</15.*%30.-AVG<COMPT		19
C	COMPUTE SELLING PRICE. PRICE ARRAY DIMENSION IS 1#WET CORN,COMPT		20
C	2#DRY CORN, 3#STORED CORN, 4#WET SOYBEANS, 5#DRY SOYBEANS,COMPT		21
C	6#STORED SOYBEANS, 7#WHEAT, 8#WET DOUBLE CROP SOYBEANS,COMPT		22
C	9#DRY DOUBLE CROP SOYBEANS, 10#SILAGECOMPT		23
	PRICE%1<#R%54<-R%51<COMPT		24

	IF %X%1<.EQ.REVISE< GO TO 37	VIVDM 44
	IF %X%1<.EQ.EXIT< GO TO 30	VIVDM 45
21	READ %99,21<COL,VALUE,VS,PRYCE,PS	
	FORMAT %11X,I6,5X,F15.5,A1,48X,F15.5,A1<	VIVDM 50
	IF %VS.EQ.MINUS< VALUE#-VALUE	VIVDM 51
	IF %PS.EQ.MINUS< PRYCE#-PRYCE	VIVDM 52
	IF %COL.GT.NCOL< GO TO 24	VIVDM 53
	IF %COL.LE.16< GO TO 22	VIVDM 54
	IF %COL.GE.150.AND.COL.LE.162.OR.COL.EQ.171.OR.COL.EQ.172<GO TO 23	VIVDM 55
	RCOL%COL,LP<#VALUE	VIVDM 56
	GO TO 20	VIVDM 57
22	BCSOL%LP,COL,1<#VALUE	VIVDM 58
	BCSOL%LP,COL,2<#PRYCE	VIVDM 59
	GO TO 20	VIVDM 60
23	COL#COL-127	VIVDM 61
	BCSOL%LP,COL,1<#VALUE	VIVDM 62
	BCSOL%LP,COL,2<#PRYCE	VIVDM 63
	GO TO 20	VIVDM 64
24	WRITE %6,25< IN1	VIVDM 65
25	FORMAT%@ ATTEMPT TO READ TOO MANY COLUMNS FROM FT@,I2,@F001@<	VIVDM 66
	STOP	VIVDM 67
	C WRITE OUT THE STRIPPED SOLUTION.	VIVDM 68
30	WRITE %3,31<	VIVDM 69
31	FORMAT %@1ROW SOLUTION@,/@OROW SOLUTION1 SOLUTION2@<	VIVDM 70
	WRITE %3,32< %I,%RSOL%I,J<,J#1,2<,I#1,116<	VIVDM 71
32	FORMAT %I4,2F13.2<	VIVDM 72
	WRITE %3,33<	VIVDM 73
33	FORMAT %@1BOUNDED COLUMN SOLUTION@,/@16X,@SOLUTION1@,26X,@SOLUTION2@	VIVDM 74
	I@,/@@OCOLUMN VALUE PRICE VALUE PRICE@<	VIVDM 75
	WRITE %3,34< %I,%BCSOL%J,I,K<,K#1,2<,J#1,2<,I#1,46<	VIVDM 76
34	FORMAT %I6,F14.2,3F13.2<	VIVDM 77
	WRITE %3,35<	VIVDM 78
35	FORMAT %@1UNBOUNDED COLUMN SOLUTION@,	VIVDM 79
	1 /@@OCOLUMN SOLUTION1 SOLUTION2@<	VIVDM 80
	WRITE%3,36< %I,%RCOL%I,J<,J#1,2<,I#1,179<	VIVDM 81
36	FORMAT %I6,F14.2,F13.2<	VIVDM 82
	RETURN	VIVDM 83
	C INCREMENT THE COUNTER AND GET THE SECOND PROBLEM SOLUTION.	VIVDM 84
37	IF %LP.GT.1< GO TO 38	VIVDM 85
	LP#LP&1	VIVDM 86
	GO TO 1	VIVDM 87
38	WRITE %6,39< IN1	VIVDM 88
39	FORMAT %@ATTEMPT TO READ MORE THAN TWO SOLUTIONS FROM FT@,I2,	VIVDM 89
	1 @F001@<	VIVDM 90
	STOP	VIVDM 91
	END	VIVDM 92
	SUBROUTINE INITL	INITL 1
	REAL*8 IDENT	CHNG 10
	COMMON/INT1/R%600<,RSOL%116,2<,RCOL%186,2<,BCSOL%2,46,2<,HEAD%10<,JEF18	1
	1ACHR%3<,ACRES%2,11<,PROD%2,11<,PRICE%11<,SOL%2,16<,VC%2,12,9<,	COMDI 2
	2AVCT%2,9<,UVCT%2,3<,FCT%2,4<,TCSTS%2<,PROFT%2<,AVC%2,8<,AVY%2,8<,	COMDI 3
	3AVS%2,8<,AVRT%2,8<,AMO%2,2<,COMBH%2,3<,TACR%2,3<,TCOMB%2<,RHS%41<	COMDI 4
	4,AWORK%12,18<,BWORK%12,18<,CLPRP,SLPRP,WLPRP,DCPRP,CCLAB,SCLAB,	COMDI 5
	5WCLAB,IPAGE,IDUT,INPT,IRNK,CTA%2,3,3<,BTA%2,3,3<,TCOMBI%2<,IO	COMDI 6
	6,RSHAD%83,2<,NMAX,IDENT,CHLAB,SHLAB,WHLAB,SICLAB	JEF27 1
	7,AWRK%6,18<,BWRK%6,18<,SWRK%6,12<	JEF34 1
	DIMENSION DUMMY%2783<	JEF34 1
	EQUIVALENCE%DUMMY%1<,R%1<<	INITL 4
	DO 100 I#1,2783	JEF34 2
	DUMMY%I<#0.	INITL 6

	PRICE%2<#R%53<	COMPT 25
	PRICE%3<#R%57<	COMPT 26
	PRICE%4<#R%56<-R%52<	COMPT 27
	PRICE%5<#R%55<	COMPT 28
	PRICE%6<#R%58<	COMPT 29
	PRICE%7<#R%516<	COMPT 30
	PRICE%8<#R%56<-R%52<	COMPT 31
	PRICE%9<#R%55<	COMPT 32
	PRICE%10<#R%15<	COMPT 33
	PRICE%11<#R%58<	COMPT 34
C	COMPUTE ACRES OF CORN, SOYBEANS, SILAGE, WHEAT, AND DOUBLE CROP	COMPT 35
C	SOYBEANS	COMPT 36
C	ACRES ARRAY--FIRST DIMENSION IS SOLUTION. SECOND DIMENSION IS-	COMPT 37
C	1#WET CORN, 2#DRY CORN, 3#STORED CORN, 4#WET SOYBEANS, 5#DRY SOYBEANS,	COMPT 38
C	6#STORED SOYBEANS, 7#WHEAT, 8#WET DOUBLE CROP SOYBEANS, 9#DRY DOUBLE	COMPT 39
C	CROP SOYBEANS, 10#SILAGE, 11#STORED D.C. SOYBEANS	COMPT 40
	DO 100 ISOL#1,2	COMPT 41
	DO 101 I#27,44	COMPT 42
	ACRES%ISOL,1<#ACRES%ISOL,1<&RCOL%I,ISOL<	COMPT 43
	ACRES%ISOL,2<#ACRES%ISOL,2<&RCOL%I&18,ISOL<	COMPT 44
101	CONTINUE	COMPT 45
	TEMP#RCOL%112,ISOL<&RCOL%164,ISOL<	COMPT 46
	IF%ACRES%ISOL,2<.EQ.0.< GO TO 102	COMPT 47
	TEMP#TEMP/ACRES%ISOL,2<	COMPT 48
	IF%TEMP.EQ.0.< GO TO 102	COMPT 49
	ACRES%ISOL,3<#RCOL%112,ISOL</TEMP	COMPT 50
	ACRES%ISOL,2<#ACRES%ISOL,2<-ACRES%ISOL,3<	COMPT 51
102	DO 103 I#74,91	COMPT 52
	ACRES%ISOL,4<#ACRES%ISOL,4<&RCOL%I,ISOL<	COMPT 53
	ACRES%ISOL,5<#ACRES%ISOL,5<&RCOL%I&18,ISOL<	COMPT 54
103	CONTINUE	COMPT 55
	TEMP#RCOL%113,ISOL<&RCOL%163,ISOL<	COMPT 56
	IF%ACRES%ISOL,5<.EQ.0.< GO TO 1004	COMPT 57
	TEMP#TEMP/ACRES%ISOL,5<	COMPT 58
	IF%TEMP.EQ.0.< GO TO 1004	COMPT 59
	ACRES%ISOL,6<#RCOL%113,ISOL</TEMP	COMPT 60
	ACRES%ISOL,5<#ACRES%ISOL,5<-ACRES%ISOL,6<	COMPT 61
1004	DO 104 I#110,111	COMPT 62
	ACRES%ISOL,7<#ACRES%ISOL,7<&RCOL%I,ISOL<	COMPT 63
104	CONTINUE	COMPT 64
	ACRES%ISOL,8<#RCOL%126,ISOL<	COMPT 65
	IF%RCOL%163,ISOL<&RCOL%113,ISOL<.LE.0.< GO TO 1098	COMPT 66
	ACRES%ISOL,9<#RCOL%127,ISOL<#RCOL%163,ISOL</%RCOL%113,ISOL<&	COMPT 67
	1RCOL%163,ISOL<<	COMPT 68
	ACRES%ISOL,11<#RCOL%127,ISOL<#RCOL%113,ISOL</%RCOL%113,ISOL<&	COMPT 69
	1RCOL%163,ISOL<<	COMPT 70
1098	CONTINUE	COMPT 71
	DO 105 I#114,125	COMPT 72
	ACRES%ISOL,10<#ACRES%ISOL,10<&RCOL%I,ISOL<	COMPT 73
105	CONTINUE	COMPT 74
C	TACR ARRAY--TOTAL ACRES OF CORN, SOYBEANS, AND DOUBLE CROP BEANS.	COMPT 75
C	FIRST DIMENSION IS SOLUTION, SECOND IS 1#CORN, 2#SOYBEANS, 3#D.C.	COMPT 76
C	BEANS.	COMPT 77
	DO 153 I#1,3	COMPT 78
	TACR%ISOL,1<#TACR%ISOL,1<&ACRES%ISOL,I<	COMPT 79
153	CONTINUE	COMPT 80
	DO 154 I#4,6	COMPT 81
	TACR%ISOL,2<#TACR%ISOL,2<&ACRES%ISOL,I<	COMPT 82
154	CONTINUE	COMPT 83
	DO 155 I#8,9	COMPT 84

155	TACR%ISOL,3<#TACR%ISOL,3<&ACRES%ISOL,1<	COMPT 85
	CONTINUE	COMPT 86
C	TACR%ISOL,3<#TACR%ISOL,3<&ACRES%ISOL,11<	COMPT 87
C	COMPUTE PRODUCTION OF CORN,SOYBEANS,SILAGE,WHEAT, AND DOUBLE CROP	COMPT 88
C	SOYBEANS	COMPT 89
C	PROD ARRAY IS SAME AS FOR ACRESARRAY	COMPT 90
	J#64	COMPT 91
	DO 106 I#27,44	COMPT 92
	J#J&7	COMPT 93
106	PROD%ISOL,1<#PROD%ISOL,1<&RCOL%I,ISOL<*R%J<	COMPT 94
	CONTINUE	COMPT 95
	PROD%ISOL,2<#RCOL%164,ISOL<	COMPT 96
	PROD%ISOL,3<#RCOL%112,ISOL<	COMPT 97
	J#191	COMPT 98
	DO 107 I#74,91	COMPT 99
	J#J&6	COMPT100
107	PROD%ISOL,4<#PROD%ISOL,4<&RCOL%I,ISOL<*R%J<	COMPT101
	CONTINUE	COMPT102
	PROD%ISOL,5<#RCOL%163,ISOL<	COMPT103
	PROD%ISOL,6<#RCOL%113,ISOL<	COMPT104
	PROD%ISOL,7<#RCOL%110,ISOL<*R%522<&RCOL%111,ISOL<*R%523<	COMPT105
	PROD%ISOL,8<#RCOL%126,ISOL<*R%535<	COMPT106
	PROD%ISOL,9<#RCOL%127,ISOL<*R%535<	COMPT107
	IF&RCOL%113,ISOL<&RCOL%163,ISOL<.LE.0,< GO TO 9898	COMPT108
	PROD%ISOL,11<#PROD%ISOL,9<*RCOL%113,ISOL</%RCOL%113,ISOL<&	COMPT109
	1RCOL%163,ISOL<<	COMPT110
	PROD%ISOL,9<#PROD%ISOL,9<*RCOL%163,ISOL</%RCOL%113,ISOL<&RCOL%163,	COMPT111
	1ISOL<<	COMPT112
9898	CONTINUE	COMPT113
	PROD%ISOL,5<#PROD%ISOL,5<-PROD%ISOL,9<	COMPT114
	PROD%ISOL,6<#PROD%ISOL,6<-PROD%ISOL,11<	COMPT115
	DO 108 I#115,125	COMPT116
	PROD%ISOL,10<#PROD%ISOL,10<&RCOL%I,ISOL<*R%14<	COMPT117
108	CONTINUE	COMPT118
C	COMPUTE SALES OF CORN,SOYBEANS,SILAGE,WHEAT,AND DOUBLE CROP	COMPT119
C	SOYBEANS	COMPT120
C	FIRST DIMENSION OF SOLUTION ARRAY IS SAME AS ACRES ARRAY. FIRST	COMPT121
C	10 PLACES OF SECOND DIMENSION ARE SAME AS ACRES.	COMPT122
	DO 109 I#1,11	COMPT123
	SOL%ISOL,12<#PROD%ISOL,12<&RCOL%I,ISOL<*R%14<	COMPT124
109	CONTINUE	COMPT125
C	COMPUTE INCOME FROM LAND RENTED OUT	COMPT126
	SOL%ISOL,12<#SOL%ISOL,2,1<*R%33<	COMPT127
C	COMPUTE INCOME FROM COMBINE HIRED OUT	COMPT128
C	COMBINE HIRED OUT-CORN	COMPT129
	DO 110 I#131,135	COMPT130
110	SOL%ISOL,13<#SOL%ISOL,13<&RCOL%I,ISOL<*R%528<*ACHR%1<*R%48<	COMPT131
	1RCOL%164,ISOL<*R%528<*CAPCBR%48<	COMPT132
C	COMBINE HIRED OUT-SOYBEANS	COMPT133
	DO 111 I#137,139	COMPT134
111	SOL%ISOL,14<#SOL%ISOL,14<&RCOL%I,ISOL<*R%531<*ACHR%2<*R%556<	COMPT135
	1RCOL%1640,ISOL<*R%531<*CAPCBR%556<	COMPT136
C	COMBINE HIRED OUT-WHEAT	COMPT137
	SOL%ISOL,15<#SOL%ISOL,14<,ISOL<*ACHR%3<*R%559<	COMPT138
C	TOTAL INCOME	COMPT139
	DO 112 I#1,12	COMPT140
112	SOL%ISOL,16<#SOL%ISOL,16<&SOL%ISOL,1<	COMPT141
C	VARIABLE COSTS. VC ARRAY--FIRST DIMENSION IS SOLUTION, SECOND	COMPT142
C	DIMENSION IS PRODUCT 2SEE ACRES ARRAY, THIRD DIMENSION IS EXPENSE	COMPT143
C	1#FERTILIZER, 2#SEED, 3#HERBICIDE AND INSECTICIDE, 4#FUEL AND	COMPT144

	1ISOL<<	COMPT205
	VC%ISOL,2,2<#VC%ISOL,2,2<#RCOL%164,ISOL</%RCOL%112,ISOL<&RCOL%164,	COMPT206
	1ISOL<<	COMPT207
	VC%ISOL,3,3<#VC%ISOL,2,3<#RCOL%112,ISOL</%RCOL%112,ISOL<&RCOL%164,	COMPT208
	1,ISOL<<	COMPT209
	VC%ISOL,2,3<#VC%ISOL,2,3<#RCOL%164,ISOL</%RCOL%112,ISOL<&RCOL%164,	COMPT210
	1,ISOL<<	COMPT211
	VC%ISOL,3,4<#VC%ISOL,2,4<#RCOL%112,ISOL</%RCOL%112,ISOL<&RCOL%164,	COMPT212
	1,ISOL<<	COMPT213
	VC%ISOL,2,4<#VC%ISOL,2,4<#RCOL%164,ISOL</%RCOL%112,ISOL<&RCOL%164,	COMPT214
	1,ISOL<<	COMPT215
	VC%ISOL,3,5<#VC%ISOL,2,5<#RCOL%112,ISOL</%RCOL%112,ISOL<&RCOL%164,	COMPT216
	1,ISOL<<	COMPT217
	VC%ISOL,2,5<#VC%ISOL,2,5<#RCOL%164,ISOL</%RCOL%112,ISOL<&RCOL%164,	COMPT218
	1,ISOL<<	COMPT219
	VC%ISOL,3,6<#VC%ISOL,2,6<#RCOL%112,ISOL</%RCOL%112,ISOL<&RCOL%164,	COMPT220
	1,ISOL<<	COMPT221
	VC%ISOL,2,6<#VC%ISOL,2,6<#RCOL%164,ISOL</%RCOL%112,ISOL<&RCOL%164,	COMPT222
	1,ISOL<<	COMPT223
	VC%ISOL,3,7<#VC%ISOL,2,7<#RCOL%112,ISOL</%RCOL%112,ISOL<&RCOL%164,	COMPT224
	1ISOL<<	COMPT225
	VC%ISOL,2,7<#VC%ISOL,2,7<#RCOL%164,ISOL</%RCOL%112,ISOL<&RCOL%164,	COMPT226
	1ISOL<<	COMPT227
C	FERTILIZER AND SEED COST-SOYBEANS	COMPT228
1130	II#191	COMPT229
	DO 116 I#74,91	COMPT230
	II#118	COMPT231
	K#11	COMPT232
	DO 117 J#1,2	COMPT233
	K#K&1	COMPT234
	VC%ISOL,4,3<#VC%ISOL,4,3<#RCOL%1,ISOL<#R%K<	COMPT235
	VC%ISOL,5,3<#VC%ISOL,5,3<#RCOL%1&18,ISOL<#R%K<	COMPT236
117	CONTINUE	COMPT237
C	INSECTICIDE AND HERBICIDE-SOYBEANS	COMPT238
	VC%ISOL,4,3<#VC%ISOL,4,3<#RCOL%1,ISOL<#R%II&3<	COMPT239
	VC%ISOL,5,3<#VC%ISOL,5,3<#RCOL%1&18,ISOL<#R%II&3<	COMPT240
C	FUEL AND REPAIR COST-SOYBEANS	COMPT241
	IF%R%531<#EQ%0< GO TO 118	COMPT242
	VC%ISOL,4,4<#VC%ISOL,4,4<#RCOL%1,ISOL<#R%530<#R%II</R%531<#	COMPT243
	IR%529<<	COMPT244
	VC%ISOL,5,4<#VC%ISOL,5,4<#RCOL%1&18,ISOL<#R%530<#R%II</R%531<#	COMPT245
	IR%529<<	COMPT246
C	DRYING COSTS-SOYBEANS THORNTON AT ELEVATOR 2#DRYING ON FARM	COMPT247
113	VC%ISOL,4,5<#VC%ISOL,4,5<#RCOL%1,ISOL<#R%II<#R%II&5<-R%560<<	COMPT248
	VC%ISOL,5,5<#VC%ISOL,5,5<#RCOL%1&18,ISOL<#R%II<#R%II&5<-R%560<<	COMPT249
C	CREDIT AND MISC. COSTS-SOYBEANS	COMPT250
	VC%ISOL,4,6<#VC%ISOL,4,6<#RCOL%1,ISOL<#R%II&4<#R%65<<	COMPT251
	VC%ISOL,5,6<#VC%ISOL,5,6<#RCOL%1&18,ISOL<#R%II&4<#R%65<<	COMPT252
116	CONTINUE	COMPT253
C	CUSTOM COMBINE HIRED IN SOYBEANS	COMPT254
	DO 195 I#1,2	COMPT255
	DO 195 J#1,3	COMPT256
195	WAC%I,J<#0	COMPT257
	IBEG#73	COMPT258
	DO 196 I#1,3	COMPT259
	IBEG#IBEG&1	COMPT260
	DO 197 J#IBEG791,3	COMPT261
	WAC%1,I<#WAC%1,I<#RCOL%1,ISOL<	COMPT262
	WAC%2,I<#WAC%2,I<#RCOL%1&18,ISOL<	COMPT263
197	CONTINUE	COMPT264

C	REPAIR, 5# DRYING, 6# CREDIT AND MISC., 7# CUSTOM COMBINE HIRED IN FERTILIZER AND SEED-CORN II#64	COMPT145 COMPT146 COMPT147
	DO 113 I#27,44 II#II&7 K#II&3 DO 114 J#1,2	COMPT148 COMPT149 COMPT150 COMPT151
	VC%ISOL,1,J<#VC%ISOL,1,J<&RCOL%I,ISOL<#R%K< VC%ISOL,2,J<#VC%ISOL,2,J<&RCOL%I&18,ISOL<#R%K< K#K-1	COMPT152 COMPT153 COMPT154
114	C CONTINUE INSECTICIDE AND HERBICIDE-CORN	COMPT155 COMPT156
	VC%ISOL,1,3<#VC%ISOL,1,3<&RCOL%I,ISOL<#R%II&4<&R%II&5<< VC%ISOL,2,3<#VC%ISOL,2,3<&RCOL%I&18,ISOL<#R%II&4<&R%II&5<<	COMPT157 COMPT158
C	FUEL AND REPAIR COSTS-CORN IF %R%528<.EQ.0.< GO TO 115	COMPT159 COMPT160
	VC%ISOL,1,4<#VC%ISOL,1,4<&RCOL%I,ISOL<#R%527<#R%II</R%528<&R%526< 1< VC%ISOL,2,4<#VC%ISOL,2,4<&RCOL%I&18,ISOL<#R%527<#R%II</R%528<& 1R%526<<	COMPT161 COMPT162 COMPT163 COMPT164
115	C DRYING COSTS-CORN 1# DRYING AT ELEVATOR 2# DRYING ON FARM VC%ISOL,1,5<#VC%ISOL,1,5<&RCOL%I,ISOL<#R%II<#R%II&1<-R%59<< VC%ISOL,2,5<#VC%ISOL,2,5<&RCOL%I&18,ISOL<#R%II<#R%II&1<-R%59<<	COMPT165 COMPT166 COMPT167
C	CREDIT AND MISC COSTS	COMPT168
	VC%ISOL,1,6<#VC%ISOL,1,6<&RCOL%I,ISOL<#R%II&6<&R%65<< VC%ISOL,2,6<#VC%ISOL,2,6<&RCOL%I&18,ISOL<#R%II&6<&R%65<<	COMPT169 COMPT170
113	C CONTINUE CUSTOM COMBINE HIRED IN-CORN	COMPT171 COMPT172
	DO 191 I#1,2 DO 191 J#1,3	COMPT173 COMPT174
191	WAC%I,J<#0. IBEG#26	COMPT175 COMPT176
	DO 192 I#1,3 IBEG#IBEG&1 DO 193 J#IBEG,44,3	COMPT177 COMPT178 COMPT179
	WAC%1,I<#WAC%1,I<&RCOL%J,ISOL< WAC%2,I<#WAC%2,I<&RCOL%J&18,ISOL<	COMPT180 COMPT181
193	CONTINUE TEMP#WAC%1,I<&WAC%2,I< IF %TEMP.LE.0.< GO TO 192	COMPT182 COMPT183 COMPT184
	WAC%1,I<#WAC%1,I</TEMP WAC%2,I<#WAC%2,I</TEMP	COMPT185 COMPT186
192	CONTINUE DO 194 I#128,130	COMPT187 COMPT188
	J#I-127 VC%ISOL,1,7<#VC%ISOL,1,7<&RCOL%I,ISOL<#R%528<#ACHR%1<#R%47<# 1WAC%1,J< VC%ISOL,2,7<#VC%ISOL,2,7<&RCOL%I,ISOL<#R%528<#ACHR%1<#R%47<# 1WAC%2,J<	COMPT189 COMPT190 COMPT191 COMPT192
194	C CONTINUE DRYING COSTS COMPLETED	COMPT193 COMPT194
	VC%ISOL,1,5<#VC%ISOL,1,5<#R%64</10. VC%ISOL,2,5<#VC%ISOL,2,5<#R%60</10.	COMPT195 COMPT196 COMPT197
C	APPORTION DRY CORN COSTS BETWEEN DRY AND STORED SALES IF %RCOL%112,ISOL<&RCOL%164,ISOL<<.EQ.0.< GO TO 1130	COMPT198 COMPT199
	VC%ISOL,3,1<#VC%ISOL,2,1<#RCOL%112,ISOL</%RCOL%112,ISOL<&RCOL%164, 1ISOL<< VC%ISOL,2,1<#VC%ISOL,2,1<#RCOL%164,ISOL</%RCOL%112,ISOL<&RCOL%164, 1ISOL<< VC%ISOL,3,2<#VC%ISOL,2,2<#RCOL%112,ISOL</%RCOL%112,ISOL<&RCOL%164,	COMPT200 COMPT201 COMPT202 COMPT203 COMPT204

	VC%ISOL,7,J<#VC%ISOL,7,J<&RCOL%I,ISOL<R%517&J<	COMPT325
120	CONTINUE	COMPT326
C	HERBICIDE AND INSECTICIDE COST-WHEAT	COMPT327
	VC%ISOL,7,3<#VC%ISOL,7,3<&RCOL%I,ISOL<R%520<	COMPT328
C	FUEL AND REPAIR COSTS-WHEAT	COMPT329
	IF R%534<.EQ.0.< GO TO 121	COMPT330
	VC%ISOL,7,4<#VC%ISOL,7,4<&RCOL%I,ISOL<R%533<R%I1</R%534<&R%532<	COMPT331
	1<	COMPT332
C	CREDIT AND MISC. COSTS-WHEAT	COMPT333
121	VC%ISOL,7,6<#VC%ISOL,7,6<&RCOL%I,ISOL<R%521<&R%65<<	COMPT334
119	CONTINUE	COMPT335
C	CUSTOM COMBINE HIRED IN-WHEAT	COMPT336
	VC%ISOL,7,7<#RCOL%140,ISOL<ACHR%3<R%45<	UPDAT1 2
C	FERTILIZER, SEED, AND INSECTICIDE & HERBICIDE COST-DOUBLE CROP BEANS	COMPT338
	DO 122 J#1,3	COMPT339
	VC%ISOL,8,J<#VC%ISOL,8,J<&RCOL%126,ISOL<R%536&J<	COMPT340
	VC%ISOL,9,J<#VC%ISOL,9,J<&RCOL%127,ISOL<R%536&J<	COMPT341
122	CONTINUE	COMPT342
C	FUEL AND REPAIR COSTS-DOUBLE CROP BEANS	COMPT343
	IF R%531<.EQ.0.< GO TO 123	COMPT344
	VC%ISOL,8,4<#VC%ISOL,8,4<&RCOL%126,ISOL<R%535<R%530</R%531<&	COMPT345
	1R%529<<	COMPT346
	VC%ISOL,9,4<#VC%ISOL,9,4<&RCOL%127,ISOL<R%535<R%530</R%531<&	COMPT347
	1R%529<<	COMPT348
C	DRYING COSTS-DOUBLE CROP BEANS	COMPT349
123	VC%ISOL,8,5<#VC%ISOL,8,5<&RCOL%126,ISOL<R%535<R%536<-R%560<<*	COMPT350
	1R%553</10.<	COMPT351
	VC%ISOL,9,5<#VC%ISOL,9,5<&RCOL%127,ISOL<R%535<R%536<-R%560<<*	COMPT352
	1R%554</10.<	COMPT353
C	CREDIT AND INTEREST COST-DOUBLE CROP BEANS	COMPT354
	IF R%531<.EQ.0.< GO TO 1240	COMPT355
	VC%ISOL,8,6<#VC%ISOL,8,6<&RCOL%126,ISOL<R%540<&R%65<<	COMPT356
	VC%ISOL,9,6<#VC%ISOL,9,6<&RCOL%127,ISOL<R%540<&R%65<<	COMPT357
C	CUSTOM COMBINE COST-DOUBLE CROP BEANS	COMPT358
	VC%ISOL,8,7<#VC%ISOL,8,7<&RCOL%136,ISOL<R%531<*ACHR%2<R%555<*WTW	COMPT359
	VC%ISOL,9,7<#VC%ISOL,9,7<&RCOL%136,ISOL<R%531<*ACHR%2<R%555<*WTD	COMPT360
1240	DO 224 J#1,7	COMPT361
	IF R%RCOL%113,ISOL<RCOL%113,ISOL<.EQ.0.< GO TO 224	COMPT362
	VC%ISOL,11,1<#VC%ISOL,9,1<R%RCOL%113,ISOL</R%RCOL%113,ISOL<&	COMPT363
	1RCOL%113,ISOL<&	COMPT364
	VC%ISOL,9,1<#VC%ISOL,9,1<R%RCOL%113,ISOL</R%RCOL%113,ISOL<&	COMPT365
	1RCOL%113,ISOL<&	COMPT366
224	CONTINUE	COMPT367
C	FERTILIZER AND SEED COSTS-SILAGE	COMPT368
	K#54	COMPT369
	DO 124 J#1,4,10,2	COMPT370
	K#K&21	COMPT371
	DO 125 J#1,2	COMPT372
	VC%ISOL,10,J<#VC%ISOL,10,J<&RCOL%1,ISOL<&RCOL%1&1,ISOL<<R%K-J<	COMPT373
125	CONTINUE	COMPT374
C	HERBICIDE AND INSECTICIDE-SILAGE	COMPT375
	VC%ISOL,10,3<#VC%ISOL,10,3<&RCOL%1,ISOL<&RCOL%1&1,ISOL<<R%K<	COMPT376
	1R%K&1<<	COMPT377
C	FUEL AND REPAIR COSTS-SILAGE	COMPT378
	VC%ISOL,10,4<#VC%ISOL,10,4<&RCOL%1,ISOL<&RCOL%1&1,ISOL<<R%525<&	COMPT379
	1R%525<<	COMPT380
C	CREDIT AND MISC. COSTS-SILAGE	COMPT381
	VC%ISOL,10,6<#VC%ISOL,10,6<&RCOL%1,ISOL<&RCOL%1&1,ISOL<<R%K&2<	COMPT382
	1R%55<<	COMPT383
124	CONTINUE	COMPT384

	TEMP#WAC%1,I<#WAC%2,I<	COMPT265
	IF%TEMP.LE.0.< GO TO 196	COMPT266
	WAC%1,I<#WAC%1,I</TEMP	COMPT267
	WAC%2,I<#WAC%2,I</TEMP	COMPT268
196	CONTINUE	COMPT269
	WAC%1,3<#WAC%1,3<#TEMP	COMPT270
	WAC%2,3<#WAC%2,3<#TEMP	COMPT271
	WTW#RCOL%126,ISOL<	COMPT272
	WTD#RCOL%127,ISOL<	COMPT273
	TEMP#TEMP&WTW&WTD	COMPT274
	IF %TEMP.EQ.0.< GO TO 1960	COMPT275
	WAC%1,3<#WAC%1,3</TEMP	COMPT276
	WAC%2,3<#WAC%2,3</TEMP	COMPT277
	WTW#WTW/TEMP	COMPT278
	WTD#WTD/TEMP	COMPT279
1960	DO 198 I#134,136	COMPT280
	J#I-133	COMPT281
	VC%ISOL,4,7<#VC%ISOL,4,7<#RCOL%I,ISOL<#R%531<#ACHR%2<#R%555<#	COMPT282
	1WAC%1,J<	COMPT283
	VC%ISOL,5,7<#VC%ISOL,5,7<#RCOL%I,ISOL<#R%531<#ACHR%2<#R%555<#	COMPT284
	1WAC%2,J<	COMPT285
198	CONTINUE	COMPT286
C	COMPLETE DRYING COSTS	COMPT287
	VC%ISOL,4,5<#VC%ISOL,4,5<#R%553</10.	COMPT288
	VC%ISOL,5,5<#VC%ISOL,5,5<#R%554</10.	COMPT289
C	APPORTION DRY SOYBEANS TO DRY AND STORED SALES	COMPT290
	IF %RCOL%113,ISOL<#RCOL%163,ISOL<#EQ.0.< GO TO 1160	COMPT291
	VC%ISOL,6,1<#VC%ISOL,5,1<#RCOL%113,ISOL<#RCOL%163,ISOL<#RCOL%163,	COMPT292
	1ISOL<	COMPT293
	VC%ISOL,5,1<#VC%ISOL,5,1<#RCOL%163,ISOL<#RCOL%113,ISOL<#RCOL%163,	COMPT294
	1ISOL<	COMPT295
	VC%ISOL,6,2<#VC%ISOL,5,2<#RCOL%113,ISOL<#RCOL%113,ISOL<#RCOL%163,	COMPT296
	1ISOL<	COMPT297
	VC%ISOL,5,2<#VC%ISOL,5,2<#RCOL%163,ISOL<#RCOL%113,ISOL<#RCOL%163,	COMPT298
	1ISOL<	COMPT299
	VC%ISOL,6,3<#VC%ISOL,5,3<#RCOL%113,ISOL<#RCOL%113,ISOL<#RCOL%163,	COMPT300
	1ISOL<	COMPT301
	VC%ISOL,5,3<#VC%ISOL,5,3<#RCOL%163,ISOL<#RCOL%113,ISOL<#RCOL%163,	COMPT302
	1ISOL<	COMPT303
	VC%ISOL,6,4<#VC%ISOL,5,4<#RCOL%113,ISOL<#RCOL%113,ISOL<#RCOL%163,	COMPT304
	1ISOL<	COMPT305
	VC%ISOL,5,4<#VC%ISOL,5,4<#RCOL%163,ISOL<#RCOL%113,ISOL<#RCOL%163,	COMPT306
	1ISOL<	COMPT307
	VC%ISOL,6,5<#VC%ISOL,5,5<#RCOL%113,ISOL<#RCOL%113,ISOL<#RCOL%163,	COMPT308
	1ISOL<	COMPT309
	VC%ISOL,5,5<#VC%ISOL,5,5<#RCOL%163,ISOL<#RCOL%113,ISOL<#RCOL%163,	COMPT310
	1ISOL<	COMPT311
	VC%ISOL,6,6<#VC%ISOL,5,6<#RCOL%113,ISOL<#RCOL%113,ISOL<#RCOL%163,	COMPT312
	1ISOL<	COMPT313
	VC%ISOL,5,6<#VC%ISOL,5,6<#RCOL%163,ISOL<#RCOL%113,ISOL<#RCOL%163,	COMPT314
	1ISOL<	COMPT315
	VC%ISOL,6,7<#VC%ISOL,5,7<#RCOL%113,ISOL<#RCOL%113,ISOL<#RCOL%163,	COMPT316
	1ISOL<	COMPT317
	VC%ISOL,5,7<#VC%ISOL,5,7<#RCOL%163,ISOL<#RCOL%113,ISOL<#RCOL%163,	COMPT318
	1ISOL<	COMPT319
C	FERTILIZER AND SEED COST-WHEAT	COMPT320
1160	II#521	COMPT321
	DO 119 I#110,111	COMPT322
	II#II&1	COMPT323
	DO 120 J#1,2	COMPT324

	AVC%ISOL,6<#VC%ISOL,6,8<EVC%ISOL,11,8</%ACRES%ISOL,6<E	COMPT445
	1 ACRES%ISOL,11<<	COMPT446
138	IF %ACRES%ISOL,7<.EQ.0.< GO TO 139	COMPT447
	AVC%ISOL,7<#VC%ISOL,7,8</ACRES%ISOL,7<	COMPT448
139	IF %ACRES%ISOL,10<.EQ.0.< GO TO 140	COMPT449
	AVC%ISOL,8<#VC%ISOL,10,8</ACRES%ISOL,10<	COMPT450
C	AVERAGE YIELD	COMPT451
140	DO 141 I#1,3	COMPT452
	IF %ACRES%ISOL,I<.EQ.0.< GO TO 141	COMPT453
	AVY%ISOL,I<#PROD%ISOL,I</ACRES%ISOL,I<	COMPT454
141	CONTINUE	COMPT455
	DO 142 I#4,5	COMPT456
	IF %ACRES%ISOL,I<&ACRES%ISOL,I&4<<.EQ.0.< GO TO 142	COMPT457
	AVY%ISOL,I<#%PROD%ISOL,I<&PROD%ISOL,I&4<</%ACRES%ISOL,I<&ACRES	COMPT458
	1%ISOL,I&4<<	COMPT459
142	CONTINUE	COMPT460
	IF %ACRES%ISOL,6<&ACRES%ISOL,11<<.EQ.0.< GO TO 143	COMPT461
	AVY%ISOL,6<#%PROD%ISOL,6<&PROD%ISOL,11<</%ACRES%ISOL,6<E	COMPT462
	1 ACRES%ISOL,11<<	COMPT463
143	IF %ACRES%ISOL,7<.GT.0.< AVY%ISOL,7<#%PROD%ISOL,7</ACRES%ISOL,7<	COMPT464
	IF %ACRES%ISOL,10<.NE.0.< AVY%ISOL,9<#%PROD%ISOL,10</ACRES%ISOL,10<	COMPT465
	IF %ACRES%ISOL,10<.EQ.0.< AVY%ISOL,8<#0.	COMPT466
C	AVERAGE SALES PER ACRE	COMPT467
	DO 144 I#1,3	COMPT468
	IF %ACRES%ISOL,I<.EQ.0.< GO TO 144	COMPT469
	AVS%ISOL,I<#SOL%ISOL,I</ACRES%ISOL,I<	COMPT470
144	CONTINUE	COMPT471
	DO 145 I#4,5	COMPT472
	IF %ACRES%ISOL,I<&ACRES%ISOL,I&4<<.EQ.0.< GO TO 145	COMPT473
	AVS%ISOL,I<#%SOL%ISOL,I<&SOL%ISOL,I&4<</%ACRES%ISOL,I<&ACRES%ISOL,	COMPT474
	1I&4<<	COMPT475
145	CONTINUE	COMPT476
	IF %ACRES%ISOL,6<&ACRES%ISOL,11<<.EQ.0.< GO TO 146	COMPT477
	AVS%ISOL,6<#%SOL%ISOL,6<&SOL%ISOL,11<</%ACRES%ISOL,6<E	COMPT478
	1 ACRES%ISOL,11<<	COMPT479
146	IF %ACRES%ISOL,7<.GT.0.< AVS%ISOL,7<#%SOL%ISOL,7</ACRES%ISOL,7<	COMPT480
	IF %ACRES%ISOL,10<.EQ.0.< GO TO 147	COMPT481
	AVS%ISOL,8<#%SOL%ISOL,10</ACRES%ISOL,10<	COMPT482
C	AVERAGE RETURN	COMPT483
147	DO 147 I#1,3	COMPT484
	AVR%ISOL,I<#AVS%ISOL,I<AV%ISOL,I<	COMPT485
C	AVERAGE MOISTURE PER ACRE	COMPT486
	AMO1%ISOL,1<#0.	COMPT487
	J#64	COMPT488
	DO 148 I#45,62	COMPT489
	J#JE7	COMPT490
	AMO1%ISOL,1<#AMO1%ISOL,1<ERCOL%112,ISOL<#R%J<#R%JE1<	COMPT491
148	CONTINUE	COMPT492
	IF %RCOL%112,ISOL<ERCOL%164,ISOL<<.EQ.0.< GO TO 149	COMPT493
	AMO1%ISOL,1<#AMO1%ISOL,1</%RCOL%112,ISOL<ERCOL%164,ISOL<<	COMPT494
	GO TO 220	COMPT495
149	AMO1%ISOL,1<#0.	COMPT496
220	AMO1%ISOL,2<#0.	COMPT497
	J#191	COMPT498
	DO 221 I#92,109	COMPT499
	J#JE6	COMPT500
	AMO1%ISOL,2<#AMO1%ISOL,2<ERCOL%127,ISOL<#R%J<#R%JE5<	COMPT501
221	CONTINUE	COMPT502
	AMO1%ISOL,2<#AMO1%ISOL,2<ERCOL%127,ISOL<#R%535<#R%536<	COMPT503
	IF %RCOL%113,ISOL<ERCOL%163,ISOL<<.EQ.0.< GO TO 222	COMPT504

C	CUSTOM COMBINE HIRED IN-SILAGE	COMPT385
	DO 199 I#142,143	COMPT386
	VC%ISOL,10,7<#VC%ISOL,10,7<&RCOL%I,ISOL<#R%510<#R%46<	COMPT387
199	CONTINUE	COMPT388
C	TOTAL ALLOCATED VARIABLE COSTS BY SOLUTION BY PRODUCT	COMPT389
	DO 127 I#1,11	COMPT390
	DO 127 J#1,7	COMPT391
	VC%ISOL,I,8<#VC%ISOL,I,8<&VC%ISOL,I,J<	COMPT392
127	CONTINUE	COMPT393
C	TOTAL ALLOCATED VARIABLE COSTS BY SOLUTION BY EXPENSE %TOTAL INCLU	COMPT394
	DO 128 J#1,8	COMPT395
	DO 128 I#1,11	COMPT396
	VC%ISOL,12,J<#VC%ISOL,12,J<&VC%ISOL,I,J<	COMPT397
128	CONTINUE	COMPT398
C	AVCT ARRAY#ALLOCATED VARIABLE EXPENSE. FIRST DIMENSION IS	COMPT399
C	SOLUTION, SECOND IS EXPENSE	COMPT400
	DO 129 J#1,4	COMPT401
129	AVCT%ISOL,J<#VC%ISOL,12,J<	COMPT402
	AVCT%ISOL,5<#VC%ISOL,2,5<&VC%ISOL,3,5<&VC%ISOL,5,5<&VC%ISOL,6,5<&	COMPT403
	1VC%ISOL,9,5<&VC%ISOL,11,5<	COMPT404
	AVCT%ISOL,6<#VC%ISOL,1,5<&VC%ISOL,4,5<&VC%ISOL,8,5<	COMPT405
	AVCT%ISOL,7<#VC%ISOL,12,6<	COMPT406
	AVCT%ISOL,8<#VC%ISOL,12,7<	COMPT407
	AVCT%ISOL,9<#VC%ISOL,12,8<	COMPT408
C	UNALLOCATED VARIABLE EXPENSES-	COMPT409
C	LAND RENTAL	COMPT410
	UVCT%ISOL,1<#UVCT%ISOL,1<&BCSOL%ISOL,3,1<#R%31<	COMPT411
C	HIRED LABOR	COMPT412
	DO 130 I#4,16	COMPT413
130	UVCT%ISOL,2<#UVCT%ISOL,2<&BCSOL%ISOL,I,1<#R%69<	COMPT414
C	CUSTOM COMBINING IN-CORN	COMPT415
C	TOTAL	COMPT416
	DO 134 I#1,2	COMPT417
	UVCT%ISOL,3<#UVCT%ISOL,3<&UVCT%ISOL,I<	COMPT418
134	CONTINUE	COMPT419
C	FIXED COSTS	COMPT420
C	MACHINERY	COMPT421
	FCT%ISOL,1<#R%524<	COMPT422
C	LABOR	COMPT423
	FCT%ISOL,2<#R%67<	COMPT424
C	LAND	COMPT425
	FCT%ISOL,3<#R%29<#R%28<&R%561<#R%562<	COMPT426
C	TOTAL	COMPT427
	DO 135 I#1,3	COMPT428
	FCT%ISOL,4<#FCT%ISOL,4<&FCT%ISOL,I<	COMPT429
135	CONTINUE	COMPT430
	TCSTS%ISOL<#AVCT%ISOL,9<&UVCT%ISOL,3<&FCT%ISOL,4<	COMPT431
	PROFT%ISOL<#SOL%ISOL,16<-TCSTS%ISOL<	COMPT432
C	AVERAGE VARIABLE COSTS- SECOND DIMENSION PRODUCT WITH DOUBLE CROP	COMPT433
C	BEANS ADDED INTO WEB AND DRY SOYBEANS	COMPT434
	DO 136 I#1,3	COMPT435
	IF%ACRES%ISOL,I<.EQ.0.< GO TO 136	COMPT436
	AVC%ISOL,I<#VC%ISOL,I,8</ACRES%ISOL,I<	COMPT437
136	CONTINUE	COMPT438
	DO 137 I#4,5	COMPT439
	IF%ACRES%ISOL,I<&ACRES%ISOL,I<4<<.EQ.0.< GO TO 137	COMPT440
	AVC%ISOL,I<#VC%ISOL,I,8<&VC%ISOL,I<4,8<</%ACRES%ISOL,I<&ACRES	COMPT441
	1%ISOL,I<4<<	COMPT442
137	CONTINUE	COMPT443
	IF%ACRES%ISOL,6<&ACRES%ISOL,11<<.EQ.0.< GO TO 138	COMPT444

	DO 208 I#44,53	COMPT565
	IF %RSOL%I,ISOL<.GE.0.< GO TO 208	COMPT566
	J#I-1	COMPT567
208	RSHAD%J,ISOL<#-RSOL%I,ISOL<	COMPT568
	CONTINUE	COMPT569
	DO 209 I#53,55	COMPT570
	IF %RSOL%I&60,ISOL<.GE.0.< GO TO 209	COMPT571
209	RSHAD%I,ISOL<#-RSOL%I&60,ISOL<	COMPT572
	CONTINUE	COMPT573
	DO 210 I#56,58	COMPT574
	IF %RSOL%54&I,ISOL<.GE.0.< GO TO 210	COMPT575
210	RSHAD%I,ISOL<#-RSOL%54&I,ISOL<	COMPT576
	CONTINUE	COMPT577
	DO 225 I#75,77	COMPT578
	IF %RSOL%32&I,ISOL<.GE.0.< GO TO 225	COMPT579
225	RSHAD%I,ISOL<#-RSOL%32&I,ISOL<	COMPT580
	CONTINUE	COMPT581
	DO 226 I#78,80	COMPT582
	IF %RSOL%I&17,ISOL<.GE.0.< GO TO 226	COMPT583
226	RSHAD%I,ISOL<#-RSOL%I&17,ISOL<	COMPT584
	CONTINUE	COMPT585
	DO 228 I#81,82	COMPT586
	IF %BCSOL%ISOL,44&I-81,2<.GE.0.< GO TO 228	JEF31 1
228	RSHAD%I,ISOL<#-BCSOL%ISOL,44&I-81,2<	JEF31 2
	CONTINUE	COMPT589
	IF %RSOL%116,ISOL<.LT.0.< RSHAD%59,ISOL<#-RSOL%116,ISOL<	COMPT590
	DO 211 I#44,45	COMPT591
	IF %BCSOL%ISOL,I,2<.GE.0.< GO TO 211	COMPT592
	J#I&16	COMPT593
211	RSHAD%J,ISOL<#-BCSOL%ISOL,I,2<	COMPT594
	CONTINUE	COMPT595
	IF %RSOL%2,ISOL<.LT.0.< RSHAD%62,ISOL<#-RSOL%2,ISOL<	COMPT596
	DO 212 I#2,3	COMPT597
	IF %BCSOL%ISOL,I,2<.GE.0.< GO TO 212	COMPT598
	J#I&61	COMPT599
212	RSHAD%J,ISOL<#-BCSOL%ISOL,I,2<	COMPT600
	CONTINUE	COMPT601
	DO 213 I#60,63	COMPT602
	IF %RSOL%I,ISOL<.GE.0.< GO TO 213	COMPT603
	J#I&5	COMPT604
213	RSHAD%J,ISOL<#-RSOL%I,ISOL<	COMPT605
	CONTINUE	COMPT606
	DO 223 I#69,71	COMPT607
	IF %RSOL%I-66,ISOL<.GE.0.< GO TO 223	COMPT608
223	RSHAD%I,ISOL<#-RSOL%I-66,ISOL<	COMPT609
	CONTINUE	COMPT610
	IF %RSOL%101,ISOL<.LT.0.< RSHAD%72,ISOL<#-RSOL%101,ISOL<	COMPT611
	IF %RSOL%100,ISOL<.LT.0.< RSHAD%73,ISOL<#-RSOL%100,ISOL<	COMPT612
	IF %RSOL%102,ISOL<.LT.0.< RSHAD%74,ISOL<#-RSOL%102,ISOL<	COMPT613
	IF %RSOL%64,ISOL<.LT.0.< RSHAD%83,ISOL<#-RSOL%64,ISOL<	JEF27 1
100	CONTINUE	COMPT614
C	FIELD HOURS AVAILABLE--TABLE 10	COMPT615
	DO 160 I#1,2	COMPT616
	R#S%I<#R%305&I<#R%325&I<	COMPT617
160	CONTINUE	COMPT618
	DO 161 I#3,8	COMPT619
	R#S%I<#R%305&I<#R%315&I<#R%406<	COMPT620
161	CONTINUE	COMPT621
	DO 162 I#9,12	COMPT622
	R#S%I<#R%307&I<#R%327&I<#R%392&I<	COMPT623

	AMJ1%ISOL,2<#AMO1%ISOL,2</%RCOL%113,ISOL<&RCOL%163,ISOL<<	COMPT505
	GO TO 150	COMPT506
222	AMJ1%ISOL,2<#0.	COMPT507
C	COMBH ARRAY--HOURS OF COMBINING HIRED OUT. FIRST DIMENSION IS	COMPT508
C	SOLUTION, SECOND DIMENSION IS PRODUCT 1#CORN,2#SOYBEANS,3# WHEAT	COMPT509
150	DO 151 I#131,133	COMPT510
	COMBH%ISOL,1<#COMBH%ISOL,1<&RCOL%I,ISOL<	COMPT511
	1&RCOL%I&43,ISOL<	COMPT512
151	CONTINUE	COMPT513
	DO 152 I#137,139	COMPT514
	COMBH%ISOL,2<#COMBH%ISOL,2<&RCOL%I,ISOL<	COMPT515
	1&RCOL%I&40,ISOL<	COMPT516
152	CONTINUE	COMPT517
	COMBH%ISOL,3<#RCOL%141,ISOL<	COMPT518
C	TCOMB ARRAY--TOTAL HOURS OF COMBINING HIRED OUT. DIMENSION IS	COMPT519
C	SOLUTION.	COMPT520
	DO 156 I#1,3	COMPT521
	TCOMB%ISOL<#TCOMB%ISOL<&COMBH%ISOL,I<	COMPT522
156	CONTINUE	COMPT523
C	TCOMBI ARRAY. TOTAL HOURS COMBINING HIRED IN. DIMENSION IS	COMPT524
C	SOLUTION.	COMPT525
	DO 157 I#128,130	COMPT526
	TCOMBI%ISOL<#TCOMBI%ISOL<&RCOL%I,ISOL<	COMPT527
157	CONTINUE	COMPT528
	DO 158 I#134,136	COMPT529
	TCOMBI%ISOL<#TCOMBI%ISOL<&RCOL%I,ISOL<	COMPT530
158	CONTINUE	COMPT531
	TCOMBI%ISOL<#TCOMBI%ISOL<&RCOL%140,ISOL<	COMPT532
	DO 159 I#142,143	COMPT533
	TCOMBI%ISOL<#TCOMBI%ISOL<&RCOL%I,ISOL<	COMPT534
159	CONTINUE	COMPT535
	IF %RSOL%18,ISOL<.GT.0.< GO TO 201	COMPT536
	DO 200 I#1,2	COMPT537
	RSHAD%I,ISOL<#-RSOL%18,ISOL<	COMPT538
200	CONTINUE	COMPT539
201	DO 202 I#6,18	COMPT540
	IF%RSOL%I,ISOL<.GE.0.< GO TO 202	COMPT541
	J#I-3	COMPT542
	RSHAD%J,ISOL<#-RSOL%I,ISOL<	COMPT543
202	CONTINUE	COMPT544
	DO 203 I#19,24	COMPT545
	IF %RSOL%I,ISOL<.GE.0.< GO TO 203	COMPT546
	J#I-3	COMPT547
	RSHAD%J,ISOL<#-RSOL%I,ISOL<	COMPT548
203	CONTINUE	COMPT549
	IF%RSOL%43,ISOL<.GE.0.< GO TO 205	COMPT550
	DO 204 I#1,2	COMPT551
	J#21&I	COMPT552
	RSHAD%J,ISOL<#-RSOL%43,ISOL<	COMPT553
204	CONTINUE	COMPT554
205	DO 206 I#39,43	COMPT555
	IF %RSOL%I,ISOL<.GE.0.< GO TO 206	COMPT556
	J#I-15	COMPT557
	RSHAD%J,ISOL<#-RSOL%I,ISOL<	COMPT558
206	CONTINUE	COMPT559
	DO 207 I#25,38	COMPT560
	IF %RSOL%I,ISOL<.GE.0.< GO TO 207	COMPT561
	J#I&4	COMPT562
	RSHAD%J,ISOL<#-RSOL%I,ISOL<	COMPT563
207	CONTINUE	COMPT564

	AWORK%1&L,J<#WORK%9<	COMPT680
	DO 180 I#1,2	COMPT681
	M#R%413<&L	COMPT682
	IF%I.EQ.2<M#R%415<&L	COMPT683
	IF%M.GT.11< GO TO 180	COMPT684
	IF%M.GT.7< M#7	COMPT685
	AWORK%1&M,J<#AWORK%1&M,J<&WORK%9&I<	COMPT686
	IF %M.GT.5< GO TO 180	JEF34 7
	AWRK%1&M,J<#AWRK%1&M,J<&WORK%12&I<	JEF34 8
180	CONTINUE	COMPT687
179	CONTINUE	COMPT688
	DO 300 J#1,12	JEF34 9
	IPLNT#%J-1</2	JEF34 10
	SWRK%IPLNT&1,J<#WORK%12<	JEF34 11
	DO 301 I#1,2	JEF34 12
	M#R%411&I*2<&IPLNT	JEF34 13
	IF %M.GT.5< GO TO 301	JEF34 14
	SWRK%ME1,J<#SWRK%ME1,J<&WORK%12&I<	JEF34 15
301	CONTINUE	JEF34 16
300	CONTINUE	JEF34 17
	DO 181 I#1,14	JEF34 18
	WORK%I<#0.	COMPT690
181	CONTINUE	COMPT691
	DO 182 I#1,8	COMPT692
	A#R%422&I<*R%458&I<	COMPT693
	IF %A.EQ.0.< GO TO 182	COMPT694
	WORK%I<#1./A	COMPT695
182	CONTINUE	COMPT696
	DO 183 I#1,4	COMPT697
	WORK%9<#WORK%9<&WORK%I<*R%422&I<*R%472&I<	COMPT698
	WORK%12<#WORK%12<&WORK%I<*R%422&I<	JEF34 19
183	CONTINUE	COMPT699
	DO 184 I#1,2	COMPT700
	WORK%10<#WORK%10<&WORK%I&4<*R%426&I<*R%476&I<	COMPT701
	WORK%11<#WORK%11<&WORK%I&6<*R%428&I<*R%478&I<	COMPT702
	WORK%13<#WORK%13<&WORK%I&4<*R%426&I<	JEF34 20
	WORK%14<#WORK%14<&WORK%I&6<*R%428&I<	JEF34 21
184	CONTINUE	COMPT703
	DO 185 J#1,18	COMPT704
	L#%J-1</3	COMPT705
	BWORK%1&L,J<#WORK%9<	COMPT706
	BWRK%LE1,J<#WORK%12<	JEF34 22
	DO 186 I#1,2	COMPT707
	M#R%414<&L	COMPT708
	IF %I.EQ.2< M#R%416<&L	COMPT709
	IF %M.GT.11< GO TO 186	COMPT710
	IF %M.GT.7< M#7	COMPT711
	BWORK%1&M,J<#BWORK%1&M,J<&WORK%9&I<	COMPT712
	IF %M.GT.5< GO TO 186	JEF34 23
	BWRK%ME1,J<#BWRK%ME1,J<&WORK%12&I<	JEF34 24
186	CONTINUE	COMPT713
185	CONTINUE	COMPT714
	DO 187 I#1,6	COMPT715
	WORK%I<#0.	COMPT716
	C#R%416&I<*R%434&I<	COMPT717
	IF %C.EQ.0.< GO TO 187	COMPT718
	WORK%I<#1./C	COMPT719
	CLPRP#CLPRP&WORK%I<*R%416&I<*R%466&I<	COMPT720
187	CONTINUE	COMPT721
	DO 188 I#1,6	COMPT722

162	CONTINUE	COMPT624
	RHS%13<#R%320<*R%340<*R%405<	COMPT625
	I1#307	COMPT626
	I2#327	COMPT627
	I3#345	COMPT628
	DO 163 I#14,19	COMPT629
	I1#I1&1	COMPT630
	I2#I2&1	COMPT631
	I3#I3&1	COMPT632
163	RHS%I<#R%I1<*R%I2<*R%I3<	COMPT633
	CONTINUE	COMPT634
	I1#307	COMPT635
	I2#327	COMPT636
	DO 164 I#20,27	COMPT637
	I1#I1&1	COMPT638
	I2#I2&1	COMPT639
164	RHS%I<#R%I1<*R%I2<*R%407<	COMPT640
	CONTINUE	COMPT641
	IF %R%493<.EQ.0.< GO TO 166	COMPT642
	DO 165 I#1,2	COMPT643
165	RHS%27&I<#RHS%27&I<&R%315&I<*R%335&I<*R%411<	COMPT644
	CONTINUE	COMPT645
166	IF %R%490<.EQ.0.< GO TO 168	COMPT646
	DO 167 I#1,3	COMPT647
167	RHS%29&I<#RHS%29&I<&R%315&I<*R%335&I<*R%412<	COMPT648
	CONTINUE	COMPT649
168	IF %R%489<.EQ.0.< GO TO 170	COMPT650
	DO 169 I#1,3	COMPT651
	RHS%32&I<#RHS%32&I<&R%316&I<*R%336&I<	COMPT652
	I*R%321&I<	COMPT653
169	CONTINUE	COMPT654
170	IF %R%491<.EQ.0.< GO TO 174	COMPT655
	DO 171 I#1,3	COMPT656
	RHS%35&I<#RHS%35&I<&R%315&I<*R%335&I<*R%412<	COMPT657
171	CONTINUE	COMPT658
172	DO 173 I#1,3	COMPT659
	RHS%38&I<#RHS%38&I<&R%316&I<*R%336&I<	COMPT660
	I*R%321&I<	COMPT661
173	CONTINUE	COMPT662
174	DO 175 I#1,14	JEF34 2
	WORK%I<#0.	COMPT664
175	CONTINUE	COMPT665
	DO 176 I#1,8	COMPT666
	A#R%422&I<*R%440&I<	COMPT667
	IF %A.EQ.0.< GO TO 176	COMPT668
	WORK%I<#1.0/A	COMPT669
176	CONTINUE	COMPT670
	DO 177 I#1,4	COMPT671
	WORK%9<#WORK%9<&WORK%I<*R%422&I<*R%472&I<	COMPT672
	WORK%12<#WORK%12<&WORK%I<*R%422&I<	JEF34 3
177	CONTINUE	COMPT673
	DO 178 I#1,2	COMPT674
	WORK%10<#WORK%10<&WORK%I&4<*R%426&I<*R%476&I<	COMPT675
	WORK%11<#WORK%11<&WORK%I&6<*R%428&I<*R%478&I<	COMPT676
	WORK%13<#WORK%13<&WORK%I&4<*R%426&I<	JEF34 4
	WORK%14<#WORK%14<&WORK%I&6<*R%428&I<	JEF34 5
178	CONTINUE	COMPT677
	DO 179 J#1,18	COMPT678
	L#%J-1</3	COMPT679
	AWRK%L&1,J<#WORK%12<	JEF34 6

	2,SPLNT%6<,WHAR,SHAR%2<,DCHAR	JEF8	1
	3,TAB3%16,9<	JEF3+	4
	COMMON/IT3/DWHT%6<	COMPT	4
	DIMENSION W%3<	COMPT	5
	DO 100 I#1,2	COMPT	6
	DO 101 J#1,6	COMPT	7
	DO 102 K#1,4	COMPT	8
	TACRE%I,J,K<#0.	COMPT	9
	TACRE%3,J,K<#0.	COMPT	10
	TPROD%I,J,K<#0.	COMPT	11
102	CONTINUE	COMPT	12
101	CONTINUE	COMPT	13
100	CONTINUE	COMPT	14
	DO 103 I#1,2	COMPT	15
	GO TO %104,105<,I	COMPT	16
104	IBEG#27	COMPT	17
	IEND#44	COMPT	18
	IM#64	COMPT	19
	MM#7	COMPT	20
	GO TO 106	COMPT	21
105	IBEG#74	COMPT	22
	IEND#91	COMPT	23
	IM#191	COMPT	24
	MM#6	COMPT	25
106	J#0	COMPT	26
	DO 107 L#IBEG,IEND,3	COMPT	27
	J#J&1	COMPT	28
	KK#L-1	COMPT	29
	DO 108 K#1,3	COMPT	30
	KK#KK&1	COMPT	31
	IM#I&MM	COMPT	32
	TACRE%I,J,K<#RCOL%KK,IRNK<#RCOL%KK&18,IRJK<	COMPT	33
	TPROD%I,J,K<#TACRE%I,J,K<#R%IM<	COMPT	34
108	CONTINUE	COMPT	35
107	CONTINUE	COMPT	36
	DO 109 J#1,6	COMPT	37
	DO 110 K#1,3	COMPT	38
	TACRE%I,J,4<#TACRE%I,J,4<#TACRE%I,J,K<	COMPT	39
	TPROD%I,J,4<#TPROD%I,J,4<#TPROD%I,J,K<	COMPT	40
110	CONTINUE	COMPT	41
109	CONTINUE	COMPT	42
103	CONTINUE	COMPT	43
	J#0	COMPT	44
	DO 114 I#114,125,2	COMPT	45
	J#J&1	COMPT	46
	KK#I-1	COMPT	47
	DO 115 K#1,2	COMPT	48
	KK#KK&1	COMPT	49
	TACRE%3,J,K<#RCOL%KK,IRNK<	COMPT	50
115	CONTINUE	COMPT	51
114	CONTINUE	COMPT	52
	DO 116 I#1,6	COMPT	53
	DO 117 J#1,2	COMPT	54
	TACRE%3,I,3<#TACRE%3,I,3<#TACRE%3,I,J<	COMPT	55
117	CONTINUE	COMPT	56
116	CONTINUE	COMPT	58
	DO 111 I#1,2	COMPT	59
	DO 112 J#1,4	COMPT	60
	DO 113 K#1,6	COMPT	61
	STACR%I,J<#STACR%I,J<#TACRE%I,K,J<	COMPT	62

	WORK%I<#0.	COMPT723
	C#R%416&I<*R%452&I<	COMPT724
	IF %C.EQ.0.< GO TO 188	COMPT725
	WORK%I<#1./C	COMPT726
188	SLPRP#SLPRP&WORK%I<*R%416&I<*R%466&I<	COMPT727
	CONTINUE	COMPT728
	DO 189 I#1,4	COMPT729
	IF%R%448&I<.LE.0.< GO TO 189	COMPT730
189	WLPRP#WLPRP&R%480&I</R%448&I<	COMPT731
	CONTINUE	COMPT732
	DO 190 I#1,3	COMPT733
	C#R%540&I<*R%543&I<	COMPT734
	IF %C.EQ.0.< GO TO 190	COMPT735
	WORK%I<#1./C	COMPT736
190	DCPRP#DCPRP&WORK%I<*R%540&I<*R%546&I<	COMPT737
	CONTINUE	COMPT738
	CCLAB# %R%499<-R%496<</50.	COMPT739
	CCLAB#CCLAB*%100.-R%528<<&R%499<	COMPT740
	CHLAB#CCLAB	COMPT741
	CCLAB#CCLAB-R%49<	COMPT742
	CCLAB#AMAX1%CCLAB,0.<	COMPT743
	SCLAB#%R%508<-R%503<</%50-35.<	COMPT744
	SCLAB#SCLAB*%100.-70.-R%531<<&R%508<	COMPT745
	SHLAB#SCLAB	COMPT746
	SCLAB#SCLAB-R%49<	COMPT747
	SCLAB#AMAX1%SCLAB,0.<	COMPT748
	WCLAB#%R%509<-R%504<</15.	COMPT749
	WCLAB#R%509<&%30.-R%534<<#WCLAB	COMPT750
	WHLAB#WCLAB	COMPT751
	WCLAB#WCLAB-R%49<	COMPT752
	WCLAB=AMAX1%0.,WCLAB<	COMPT753
C	SIHLAB#R%511<	COMPT754
	SICLAB#R%511<-R%50<	COMPT755
	SICLAB=AMAX1%0.,SICLAB<	COMPT756
	RETURN	COMPT757
	END	COMPT758
	SUBROUTINE INITL2	INITL 1
	COMMON /INT2/TACRE%3,6,4<,TPROD%2,6,4<,STACR%2,4<,STPRD%2,4<,	COMM 1
	1APRP%3,15<,PPLNT%10<,DD%41<,DDD%41<,SHAD%41<,TAB%16,8<,TABB%16,6<	COMM 2
	2,SPLNT%6<,WHAR,SHAR%2<,DCHAR	JEF8 1
	3,TAB%16,9<	JEF34 1
	DIMENSION DUMMY%692<	JEF34 1
	EQUIVALENCE%DUMMY%1<,TACRE%1,1,1<<	INITL 4
	DO 100 I#1,692	JEF34 2
	DUMMY%I<#0.	INITL 6
100	CONTINUE	INITL 7
	RETURN	INITL 8
	END	INITL 9
	SUBROUTINE COMPT2	COMPT 1
	REAL*8 IDENT	CHNG 10
	COMMON/INT1/R%600<,RSOL%116,2<,RCOL%186,2<,BCSOL%2,46,2<,HEAD%10<,	JEF18 1
	1ACHR%3<,ACRES%2,11<,PROD%2,11<,PRICE%11<,SOL%2,16<,VC%2,12,9<,	COMDI 2
	2AVCT%2,9<,UVCT%2,3<,FCT%2,4<,TCSTS%2<,PROFT%2<,AVC%2,8<,AVY%2,8<,	COMDI 3
	3AVS%2,8<,AVRT%2,2<,AMO%2,2<,COMBH%2,3<,TACR%2,3<,TCOMB%2<,RHS%41<	COMDI 4
	4,AWORK%12,18<,BWORK%12,18<,CLPRP,SLPRP,WLPRP,DCPRP,CCLAB,SCLAB,	COMDI 5
	5WCLAB,IPAGE,IOUT,INPT,IRNK,CTA%2,3,3<,BTA%2,3,3<,TCOMBI%2<,IO	COMDI 6
	6,RSHAD%83,2<,NMAX,IDENT,CHLAB,SHLAB,WHLAB,SICLAB	JEF27 1
	7,AWRK%6,18<,BWRK%6,18<,SWRK%6,12<	JEF34 1
	COMMON /INT2/TACRE%3,6,4<,TPROD%2,6,4<,STACR%2,4<,STPRD%2,4<,	COMM 1
	1APRP%3,15<,PPLNT%10<,DD%41<,DDD%41<,SHAD%41<,TAB%16,8<,TABB%16,6<	COMM 2

130	GO TO 127	COMPT131
127	PPLNT%10<#PPLNT%10<&TACRE%2,I,4<	COMPT132
127	CONTINUE	COMPT134
131	J#0	JEF13 1
	DO 204 I#114,125,2	JEF13 2
	J#J&1	JEF13 3
	SPLNT%J<#SPLNT%J<&RCOL%I,IRNK<	JEF13 4
	SHAR%1<#SHAR%1<&RCOL%I,IRNK<	JEF8 5
204	CONTINUE	JEF8 6
	J#0	JEF8 7
	DO 205 I#115,125,2	JEF8 8
	J#J&1	JEF8 9
	SPLNT%J<#SPLNT%J<&RCOL%I,IRNK<	JEF11 5
	SHAR%2<#SHAR%2<&RCOL%I,IRNK<	JEF8 11
205	CONTINUE	JEF8 12
	DO 206 I#110,111	JEF8 13
	WHAR%WHAR&RCOL%I,IRNK<	JEF8 14
206	CONTINUE	JEF8 15
	DO 207 I#126,127	JEF8 16
207	DCHAR%DCHAR&RCOL%I,IRNK<	JEF8 17
	DO 132 LP#1,4	JEF8 18
	GO TO %133,134,135,136<,LP	COMPT136
133	MIN#19	COMPT137
	MAX#24	COMPT138
	IL#16	COMPT139
	GO TO 137	COMPT140
134	MIN#39	COMPT141
	MAX#42	COMPT142
	IL#30	COMPT143
	GO TO 137	COMPT144
135	MIN#25	COMPT145
	MAX#30	COMPT146
	IL#11	COMPT147
	GO TO 137	COMPT148
136	MIN#31	COMPT149
	MAX#38	COMPT150
	IL#11	COMPT151
137	DO 138 I#MIN,MAX	COMPT152
	J#I-IL	COMPT153
	IF %RSOL%I,IRNK<GE,0,< GO TO 139	COMPT154
	SHAD%J<#-RSOL%I,IRNK<	COMPT155
	DD%J<#RHS%J<	COMPT156
	DDD%J<#0.	COMPT157
	GO TO 138	COMPT158
139	DDD%J<#RSOL%I,IRNK<	COMPT159
	DD%J<#RHS%J<-DDD%J<	COMPT160
138	CONTINUE	COMPT161
132	CONTINUE	COMPT162
	WT1#0.	COMPT163
	WT2#0.	COMPT164
	WT3#0.	COMPT165
	IF %RHS%1<&RHS%2<&RHS%13<<EQ,0,< GO TO 1320	COMPT166
	WT1#RHS%1</%RHS%1<&RHS%2<&RHS%13<<	COMPT167
	WT2#RHS%2</%RHS%1<&RHS%2<&RHS%13<<	COMPT168
	WT3#RHS%13</%RHS%1<&RHS%2<&RHS%13<<	COMPT169
1320	IF %RSOL%43,IRNK<GE,0,< GO TO 140	COMPT170
	SHAD%1<#-RSOL%43,IRNK<	COMPT171
	SHAD%2<#-RSOL%43,IRNK<	COMPT172
	SHAD%13<#-RSOL%43,IRNK<	COMPT173
	DD%1<#RHS%1<	COMPT174

113	STPRD%I, J<#STPRD%I, J<&TPROD%I, K, J<	COMPT 63
112	CONTINUE	COMPT 64
111	CONTINUE	COMPT 65
	WT#R%306<#R%326<&R%307<#R%327<&R%320<#R%340<	COMPT 66
	J#305	COMPT 67
	K#325	COMPT 68
	DO 118 I#1,2	COMPT 69
	J#J&1	COMPT 70
	K#K&1	COMPT 71
	IF %WT.LE.0.< GO TO 118	COMPT 72
	APRP%1, I<#R%J<#R%K<#RCOL%20, IRNK</WT	COMPT 73
	APRP%2, I<#R%J<#R%K<#RCOL%67, IRNK</WT	COMPT 74
118	CONTINUE	COMPT 75
	DO 119 I#3,8	COMPT 76
	J#I&18	COMPT 77
	K#I&65	COMPT 78
	APRP%1, I<#RCOL%J, IRNK<	COMPT 79
	APRP%2, I<#RCOL%K, IRNK<	COMPT 80
119	CONTINUE	COMPT 81
	DO 120 I#12,14	COMPT 82
	J#I&5	COMPT 83
	K#I&52	COMPT 84
	APRP%1, I<#RCOL%J, IRNK<	COMPT 85
	APRP%2, I<#RCOL%K, IRNK<	COMPT 86
120	CONTINUE	COMPT 87
	APRP%2, I1<#RCOL%63, IRNK<	COMPT 88
	IF %WT.LE.0.< GO TO 1210	COMPT 89
	APRP%1, I5<#R%320<#R%340<#RCOL%20, IRNK</WT	COMPT 90
	APRP%2, I5<#R%320<#R%340<#RCOL%67, IRNK</WT	COMPT 91
1210	DO 121 I#1,15	COMPT 92
	DO 122 J#1,2	COMPT 93
	APRP%3, I<#APRP%J, I<	COMPT 94
122	CONTINUE	COMPT 95
121	CONTINUE	COMPT 96
	K1#R%413<	COMPT 97
	K2#R%414<	COMPT 98
	K3#R%415<	COMPT 99
	K4#R%416<	COMPT 100
	IF %R%413<.GE.13< GO TO 1250	COMPT 101
	DO 123 I#1,6	COMPT 102
	IF %I&K1<.GT.7< GO TO 124	COMPT 103
	PPLNT%I&K1&2<#PPLNT%I&K1&2<&TACRE%1, I, 4<&RCOL%112&I*2, IRNK<	COMPT 107
	1&RCOL%113&I*2, IRNK<	JEF11 1
	GO TO 125	JEF11 2
124	PPLNT%10<#PPLNT%10<&TACRE%1, I, 4<&RCOL%112&I*2, IRNK<&RCOL%113&I*2,	COMPT 109
	AIRNK<	JEF11 3
125	IF %I&K3<.GT.7< GO TO 126	JEF11 4
	PPLNT%I&K3&2<#PPLNT%I&K3&2<&TACRE%1, I, 4<	JEF20 1
	GO TO 123	COMPT 114
126	PPLNT%10<#PPLNT%10<&TACRE%1, I, 4<	COMPT 115
123	CONTINUE	COMPT 116
1250	IF %R%414<.GT.13< GO TO 131	COMPT 118
	DO 127 I#1,6	COMPT 119
	IF %K2&I<.GT.7< GO TO 128	COMPT 120
	PPLNT%I&K2&2<#PPLNT%I&K2&2<&TACRE%2, I, 4<	COMPT 124
	GO TO 129	COMPT 125
128	PPLNT%10<#PPLNT%10<&TACRE%2, I, 4<	COMPT 126
129	IF %I&K4<.GT.7< GO TO 130	COMPT 127
	PPLNT%I&K4&2<#PPLNT%I&K4&2<&TACRE%2, I, 4<	JEF19 1
		COMPT 130

152	TAB%I,1<#R%305&I<*R%325&I<*R%K&I<	COMPT233
	CONTINUE	COMPT234
203	DO 203 I#1,6	COMPT235
	DWHT%I<#0.	COMPT236
	IF %R%492<.NE.0.< DWHT%1<#R%315<*R%335<*R%408<	COMPT237
	DWHT%2<#RCOL%140,IRNK<	COMPT238
	DWHT%3<#RCOL%141,IRNK<	COMPT239
	DWHT%4<#RCOL%173,IRNK<	COMPT240
	IF %RSOL%116,IRNK<.GE.0.< DWHT%5<#RSOL%116,IRNK<	COMPT241
	IF %RSOL%116,IRNK<.LT.0.< DWHT%6<#-RSOL%116,IRNK<	COMPT242
	WT1#0.	COMPT243
	WT2#0.	COMPT244
	WT3#0.	COMPT245
	IF%R%306<*R%326<*R%353<&R%307<*R%327<*R%354<&R%320<*R%340<*R%389<	JEF31 2
	1<.E.0.< GO TO 1520	JEF31 3
	WT1#R%306<*R%326<*R%353</%R%306<*R%326<*R%353<&R%307<*R%327<*	JEF31 4
	1R%354<&R%320<*R%340<*R%389<<	JEF31 5
	WT2#R%307<*R%327<*R%354</%R%306<*R%326<*R%353<&R%307<*R%327<*	JEF31 6
	1R%354<&R%320<*R%340<*R%389<<	JEF31 7
	WT3#R%320<*R%340<*R%389</%R%306<*R%326<*R%353<&R%307<*R%327<*	JEF31 8
	1R%354<&R%320<*R%340<*R%389<<	JEF31 9
1520	TAB%1,2<#BCSOL%IRNK,35,1<*WT1	COMPT250
	TAB%2,2<#BCSOL%IRNK,35,1<*WT2	COMPT251
	TAB%15,2<#BCSOL%IRNK,35,1<*WT3	COMPT252
	DO 153 I#3,14	COMPT253
	TAB%I,2<#BCSOL%IRNK,I&20,1<	COMPT254
153	CONTINUE	COMPT255
	DO 154 I#1,15	COMPT256
	TAB%I,3<#TAB%I,1<-TAB%I,2<	COMPT257
154	CONTINUE	COMPT258
	DO 155 I#1,15	COMPT259
	K#363	COMPT260
	IF %I.GT.10< K#K&16	COMPT261
	TAB%I,4<#R%305&I<*R%325&I<*R%K&I<	COMPT262
155	CONTINUE	COMPT263
	IF %BCSOL%IRNK,16,1<.LE.0.<AND.%BCSOL%IRNK,16,2<.GE.0.< GO TO 156	COMPT264
	TAB%1,5<#BCSOL%IRNK,16,1<	COMPT265
	TAB%2,5<#BCSOL%IRNK,16,1<	COMPT266
	TAB%15,5<#BCSOL%IRNK,16,1<	COMPT267
156	IF %BCSOL%IRNK,16,1<.LT.0.<AND.%BCSOL%IRNK,16,2<.LT.0.< GO TO 157	COMPT268
	TAB%1,5<#BCSOL%IRNK,16,1<*WT1	COMPT269
	IF%R%306<*R%326<*R%364<&R%307<*R%327<*R%365<&R%320<*R%340<*R%394<	JEF31 10
	1<.E.0.< GO TO 157	JEF31 11
	WT1#R%306<*R%326<*R%364</%R%306<*R%326<*R%364<&R%307<*R%327<*	JEF31 12
	1R%365<&R%320<*R%340<*R%394<<	JEF31 13
	WT2#R%307<*R%327<*R%365</%R%306<*R%326<*R%364<&R%307<*R%327<*	JEF31 14
	1R%365<&R%320<*R%340<*R%394<<	JEF31 15
	WT3#R%320<*R%340<*R%394</%R%306<*R%326<*R%364<&R%307<*R%327<*	JEF31 16
	1R%365<&R%320<*R%340<*R%394<<	JEF31 17
	TAB%2,5<#BCSOL%IRNK,16,1<*WT2	COMPT270
	TAB%15,5<#BCSOL%IRNK,16,1<*WT3	COMPT271
157	DO 158 I#3,14	COMPT272
	TAB%I,5<#BCSOL%IRNK,I&1,1<	COMPT273
158	CONTINUE	COMPT274
	DO 159 I#1,15	COMPT275
	TAB%I,5<#TAB%I,3<&TAB%I,5<	COMPT276
159	CONTINUE	COMPT277
	DO 160 I#1,15	COMPT278
	TAB%I,7<#R%70<*TAB%I,5<&TAB%I,5<	COMPT279
160	CONTINUE	COMPT280

	DD%2<#RHS%2<	COMPT175
	DD%13<#RHS%13<	COMPT176
	GO TO 141	COMPT177
140	DDD%1<#WT1*RSOL%43,IRNK<	COMPT178
	DDD%2<#WT2*RSOL%43,IRNK<	COMPT179
	DDD%13<#WT3*RSOL%43,IRNK<	COMPT180
	DD%1<#RHS%1<-DDD%1<	COMPT181
	DD%2<#RHS%2<-DDD%2<	COMPT182
	DD%13<#RHS%13<-DDD%13<	COMPT183
141	IF %R%493<.EQ.0.< GO TO 1440	COMPT184
	DO 142 I#1,2	COMPT185
	IF %BCSOL%IRNK,I&43,2<.GE.0.< GO TO 143	COMPT186
	SHAD%27&I<#-BCSOL%IRNK,I&43,2<	COMPT187
	DD%27&I<#RHS%27&I<	JEF17 1
	GO TO 142	COMPT189
143	DDD%27&I<#RHS%27&I<-BCSOL%IRNK,I&43,1<	COMPT190
	DD%27&I<#BCSOL%IRNK,I&43,1<	COMPT191
142	CONTINUE	COMPT192
1440	IF %R%490<.GT.0.< GO TO 1441	UPDAT1 3
	IF %R%491<.GT.0.< GO TO 1460	UPDAT1 4
1441	DO 144 I=1,3	UPDAT1 5
	IF %RSOL%112&I,IRNK<.GE.0.< GO TO 145	COMPT195
	SHAD%29&I<#-RSOL%112&I,IRNK<	COMPT196
	DD%29&I<#RHS%29&I<-RCOL%136&I,IRNK<	COMPT197
	GO TO 144	COMPT198
145	DD%29&I<#RSOL%112&I,IRNK<	JEF17 2
	DD%29&I<#RCOL%167&I,IRNK<	COMPT200
144	CONTINUE	COMPT201
1460	IF %R%489<.GT.0.< GO TO 1461	UPDAT1 6
	IF %R%491<.GT.0.< GO TO 1480	UPDAT1 7
1461	DO 146 I=1,3	UPDAT1 8
	IF %RSOL%109&I,IRNK<.GE.0.< GO TO 147	COMPT204
	SHAD%32&I<#-RSOL%109&I,IRNK<	COMPT205
	DD%32&I<#RHS%32&I<-RCOL%130&I,IRNK<	COMPT206
	GO TO 146	COMPT207
147	DDD%32&I<#RSOL%109&I,IRNK<	COMPT208
	DD%32&I<#RCOL%164&I,IRNK<	COMPT209
146	CONTINUE	COMPT210
1480	IF %R%491<.EQ.0.< GO TO 1521	COMPT211
	DO 148 I#1,3	COMPT212
	IF %RSOL%106&I,IRNK<.GE.0.< GO TO 149	COMPT213
	SHAD%35&I<#-RSOL%106&I,IRNK<	COMPT214
	DD%35&I<#RHS%35&I<-RCOL%176&I,IRNK<	COMPT215
	GO TO 148	COMPT216
149	DD%35&I<#RCOL%143&I,IRNK<	COMPT217
	DDD%35&I<#RSOL%106&I,IRNK<	JEF31 1
148	CONTINUE	COMPT219
	DO 150 I#1,3	COMPT220
	IF %RSOL%94&I,IRNK<.GE.0.< GO TO 151	COMPT221
	SHAD%38&I<#-RSOL%94&I,IRNK<	COMPT222
	DD%38&I<#RCOL%146&I,IRNK<	COMPT223
	GO TO 150	COMPT224
151	DDD%38&I<#RSOL%94&I,IRNK<	COMPT225
	DD%38&I<#RCOL%146&I,IRNK<	COMPT226
150	CONTINUE	COMPT227
C	CALCULATE FULL TIME LABOR HOURS AVAILABLE TABLE 11	COMPT228
1521	CONTINUE	COMPT229
	DO 152 I#1,15	COMPT230
	K#352	COMPT231
	IF%I.GT.10< K#374	COMPT232

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T#TABB%J&2,4<
TABB%J&2,4<#TABB%J&2,5<
TABB%J&2,5<#T
GO TO 167
174 TABB%J&2,1<#R%511<*BCSOL%IRNK,44,1<&B&C
1&SICLAB*RCOL%142,IRNK<
TABB%J&2,2<#SHLAB*RCOL%168,IRNK<ESLPRP*RCOL%63,IRNK<&D
1&SCLAB*RCOL%134,IRNK<ESHLAB*RCOL%144,IRNK<
TABB%J&2,5<#R%49<*RCOL%134,IRNK<ER%50<*RCOL%142,IRNK<
TABB%J&2,4<#R%49<*RCOL%137,IRNK<ERCOL%177,IRNK<<
GO TO 167
175 TABB%J&2,1<#CLPRP*RCOL%17,IRNK<ER%511<*BCSOL%IRNK,45,1<&CHLAB*
IRCOL%165,IRNK<EB&C&CHLAB*RCOL%147,IRNK<
2&SICLAB*RCOL%143,IRNK<ECCLAB*RCOL%128,IRNK<
TABB%J&2,2<#SLPRP*RCOL%64,IRNK<ESHLAB*RCOL%169,IRNK<&D
1&SCLAB*RCOL%135,IRNK<ESHLAB*RCOL%145,IRNK<
TABB%J&2,4<#R%49<*RCOL%135,IRNK<ER%50<*RCOL%143,IRNK<ER%49<*
IRCOL%128,IRNK<
TABB%J&2,5<#R%49<*RCOL%138,IRNK<ER%49<*RCOL%131,IRNK<
1&R%49<*RCOL%174,IRNK<ERCOL%178,IRNK<<
TT#TABB%J&2,4<
TABB%J&2,4<#TABB%J&2,5<
TABB%J&2,5<#TT
TABB%J&2,3<#WLPRP*RCOL%110,IRNK<
GO TO 167
176 TABB%J&2,1<#CLPRP*RCOL%18,IRNK<ECHLAB*RCOL%166,IRNK<EB&C
1&CCLAB*RCOL%129,IRNK<ECHLAB*RCOL%148,IRNK<
TABB%J&2,4<#R%49<*RCOL%136,IRNK<ER%49<*RCOL%129,IRNK<
TABB%J&2,5<#R%49<*RCOL%139,IRNK<ER%49<*RCOL%132,IRNK<
1&R%49<*RCOL%175,IRNK<ERCOL%179,IRNK<<
TT#TABB%J&2,4<
TABB%J&2,4<#TABB%J&2,5<
TABB%J&2,5<#TT
E#0.
H#0.
K#76
L#209
DO 181 I#1,6
E#E&RCOL%K,IRNK<*R%L<
H#H&RCOL%K&18,IRNK<*R%L<
K#K&3
L#L&18
181 CONTINUE
TEMP#0.
FAC#0.
IF %*TEMP&EEHC.EQ.0.< GO TO 1770
FAC#TEMP/%TEMP&EEHC
1770 CONTINUE
TABB%J&2,2<#SLPRP*RCOL%65,IRNK<ESHLAB*%1.-FAC<*RCOL%170,IRNK<&D&
1&SCLAB*%1.-FAC<*RCOL%136,IRNK<
2&SHLAB*%1.-FAC<*RCOL%146,IRNK<
TABB%J&2,3<#SHLAB*FAC*RCOL%170,IRNK<ESCLAB*RCOL%136,IRNK<*FAC&
1&WLPRP*RCOL%111,IRNK<
2&SHLAB*FAC*RCOL%146,IRNK<
GO TO 167
177 TABB%J&2,1<#CLPRP*RCOL%19,IRNK<ECHLAB*RCOL%167,IRNK<EB&C
1&CCLAB*RCOL%130,IRNK<ECHLAB*RCOL%149,IRNK<
TABB%J&2,2<#SLPRP*RCOL%65,IRNK<&D
TABB%J&2,4<#R%49<*RCOL%130,IRNK<
TABB%J&2,5<#R%49<*RCOL%133,IRNK<ERCOL%176,IRNK<<

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COMPT341
COMPT342
COMPT343
COMPT344
COMPT345
COMPT346
JEF2 5
JEF2 6
COMPT349
JEF2 7
COMPT351
COMPT352
JEF2 8
COMPT354
JEF2 9
JEF2 10
COMPT357
COMPT358
COMPT359
JEF2 11
COMPT360
COMPT361
COMPT362
COMPT363
COMPT364
JEF2 12
COMPT366
COMPT367
COMPT368
JEF2 13
COMPT369
COMPT370
COMPT371
COMPT372
COMPT373
COMPT374
COMPT375
COMPT376
COMPT377
COMPT378
COMPT379
COMPT380
COMPT381
CHNG 381
COMPT382
COMPT383
COMPT384
COMPT385
JEF2 14
COMPT387
JEF5 1
JEF2 15
COMPT390
JEF5 2
COMPT392
JEF2 16
COMPT394
COMPT395
COMPT396
JEF2 17

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	IF %RCOL%162,IRNK<.GT.0.< GO TO 161	COMPT281
	IF %RSOL%18,IRNK<.GT.0.< GO TO 161	COMPT282
	TAB%1,8<#-RSOL%18,IRNK<	COMPT283
	TAB%2,8<#-RSOL%18,IRNK<	COMPT284
161	DO 162 I#6,18	COMPT285
	IF %RCOL%I&144,IRNK<.GT.0.< GO TO 162	COMPT286
	IF %RSOL%I,IRNK<.GT.0.< GO TO 162	COMPT287
	K#I-3	COMPT288
	TAB%K,8<#-RSOL%I,IRNK<	COMPT289
162	CONTINUE	COMPT290
	DO 163 I#1,7	COMPT291
	DO 164 J#1,15	COMPT292
	TAB%16,I<#TAB%16,I<&TAB%J,I<	COMPT293
164	CONTINUE	COMPT294
163	CONTINUE	COMPT295
	CTOT#CLPRP*RCOL%20,IRNK<	COMPT296
	STOT#SLPRP*RCOL%67,IRNK<	COMPT297
	SUM#R%306<*R%326<*R%353<&R%307<*R%327<*R%354<&R%320<*R%340<*R%389<	COMPT298
	IF %SUM.EQ.0.< GO TO 165	COMPT299
	W%1<#R%306<*R%326<*R%353</SUM	COMPT300
	W%2<#R%307<*R%327<*R%354</SUM	COMPT301
	W%3<#R%320<*R%340<*R%389</SUM	COMPT302
165	DO 166 I#1,2	COMPT303
	TABB%I,1<#W%I<*CTOT	COMPT304
	TABB%I,2<#W%I<*STOT	COMPT305
166	CONTINUE	COMPT306
	TABB%15,1<#W%3<*CTOT	COMPT307
	TABB%15,2<#W%3<*STOT	COMPT308
	DO 167 J#1,12	COMPT309
	B#0.	COMPT310
	C#0.	COMPT311
	D#0.	COMPT312
	DO 168 I#27,44	COMPT313
168	B#B&AWORK%J,I-26<#%RCOL%I,IRNK<&RCOL%I&18,IRNK<<	COMPT314
	CONTINUE	COMPT315
	K#0	COMPT316
	DO 169 I#114,125	COMPT317
	L#K&I/2-56	COMPT318
	K#K&1	COMPT319
	C#C&AWORK%J,L<#RCOL%I,IRNK<	COMPT320
169	CONTINUE	COMPT321
	DO 170 I#74,91	COMPT322
	D#D&BWORK%J,I-73<#%RCOL%I,IRNK<&RCOL%I&18,IRNK<<	COMPT323
170	CONTINUE	COMPT324
	GO TO%171,171,171,171,171,171,172,173,174,175,176,177<,J	COMPT325
171	TABB%J&2,1<#B&C&CLPRP*RCOL%J&20,IRNK<	COMPT326
	TABB%J&2,2<#D&SLPRP*RCOL%J&67,IRNK<	COMPT327
	GO TO 167	COMPT328
172	TABB%J&2,1<#B&C	COMPT329
	TABB%J&2,2<#D	COMPT330
	GO TO 167	COMPT331
173	TABB%J&2,1<#B&C	COMPT332
	TABB%J&2,2<#D	COMPT333
	F#0.	COMPT334
	DO 180 I#126,127	COMPT335
	F#F&DCPRP*RCOL%I,IRNK<	COMPT336
180	CONTINUE	COMPT337
	TABB%J&2,3<#WHLAB*RCOL%173,IRNK<&F	JEF2 4
	TABB%J&2,4<#WCLAB*RCOL%140,IRNK<	COMPT339
	TABB%J&2,5<#R%49<#RCOL%141,IRNK<	COMPT340

	IEND#8	JEF34 49
	IADD#65	JEF34 50
	ISW#1	JEF34 51
	GO TO 304	JEF34 52
300	CONTINUE	JEF34 53
C	CALCULATE TRACTOR USAGE FOR COLUMNS 27-62 AND 74-109	JEF34 54
	DO 308 IBEAN#2,3	JEF34 55
	IC#26	JEF34 56
	IF %IBEAN.EQ.3< IC#73	JEF34 57
	DO 309 IWET#1,2	JEF34 58
	DO 310 J#1,18	JEF34 59
	L#%J-1</3	JEF34 60
	IC#IC&1	JEF34 61
	DO 311 I#1,6	JEF34 62
	GO TO %311,312,313<,IBEAN	JEF34 63
312	TEMP#AWRK%I,J<	JEF34 64
	GO TO 314	JEF34 65
313	TEMP#BWRK%I,J<	JEF34 66
314	IF %TEMP.LE.0.< GO TO 311	JEF34 67
	TAB3%I&2,IBEAN<#RCOL%IC,IRNK<#TEMP&TAB3%I&2,IBEAN<	JEF34 68
311	CONTINUE	JEF34 69
310	CONTINUE	JEF34 70
309	CONTINUE	JEF34 71
308	CONTINUE	JEF34 72
C	WHEAT TRACTOR HOURS	JEF34 73
	S3#0.	JEF34 74
	DO 315 J#1,4	JEF34 75
	WC#R%430&J<#R%448&J<	JEF34 76
	IF %WC< 315,315,3160	JEF34 77
3160	S3#S3&1./R%448&J<	JEF34 78
315	CONTINUE	JEF34 79
	TAB3%12,4<#RCOL%110,IRNK<#S3	JEF34 80
	TAB3%13,4<#RCOL%111,IRNK<#S3	JEF34 81
C	SILAGE TRACTOR HOURS	JEF34 82
	IC#113	JEF34 83
	DO 316 J#1,12	JEF34 84
	L#%J-1</2	JEF34 85
	IC#IC&1	JEF34 86
	DO 317 I#1,6	JEF34 87
	IF %SWRK%I,L&1<.EQ.0.< GO TO 317	JEF34 88
	TAB3%I&2,2<#TAB3%I&2,2< &RCOL%IC,IRNK<#SWRK%I,L&1<	JEF34 89
317	CONTINUE	JEF34 90
316	CONTINUE	JEF34 91
C	TRACTOR USAGE SILAGE HARVEST	JEF34 92
	TAB3%11,2<#TAB3%11,2<&RCOL%142,IRNK<#R%488<&BCSOL%IRNK,44,1<*	JEF34 93
	IR%487<	JEF34 94
	TAB3%12,2<#TAB3%12,2<&RCOL%143,IRNK<#R%488<&BCSOL%IRNK,45,1<*	JEF34 95
	IR%487<	JEF35 1
C	TRACTOR USAGE CORN HARVEST AND SOYBEAN HARVEST--CORN SOYBEAN COMBI	JEF34 97
	DO 318 I#2,3	JEF34 98
	GO TO %318,319,320<,I	JEF34 99
319	IC#146	JEF34 100
	IBEG#12	JEF34 101
	IEND#14	JEF34 102
	GO TO 321	JEF34 103
320	IC#143	JEF34 104
	IBEG#11	JEF34 105
	IEND#13	JEF34 106
321	DO 322 J#IBEG,IEND	JEF34 107
	IC#IC&1	JEF34 108

	TT#TABB%J&2,4<	COMPT398
	TABB%J&2,4<#TABB%J&2,5<	COMPT399
	TABB%J&2,5<#TT	COMPT400
167	CONTINUE	COMPT401
	DO 182 J#1,15	COMPT402
	DC 183 I#1,4	COMPT403
	TABB%J,6<#TABB%J,6<&TABB%J,I<	COMPT404
183	CONTINUE	COMPT405
	DO 184 I#1,6	COMPT406
	TABB%16,I<#TABB%16,I<&TABB%J,I<	COMPT407
184	CONTINUE	COMPT408
182	CONTINUE	COMPT409
C	COLUMN 1--TRACTOR HOURS AVAILABLE	JEF34 1
	I1#307	JEF34 2
	I2#327	JEF34 3
	I3#376	JEF34 4
	MIN#3	JEF34 5
	MAX#8	JEF34 6
	DO 336 J#1,2	JEF34 7
	DO 337 I#MIN,MAX	JEF34 8
	I1#I1&1	JEF34 9
	I2#I2&1	JEF34 10
	I3#I3&1	JEF34 11
	TAB3%I,1<#R%I1<#R%I2<#R%I3<	JEF34 12
337	CONTINUE	JEF34 13
	I1#315	JEF34 14
	I2#335	JEF34 15
	I3#394	JEF34 16
	MIN#11	JEF34 17
	MAX#14	JEF34 18
336	CONTINUE	JEF34 19
C	CALCULATE TRACTOR USAGE FOR COLUMNS 17-26 AND 63-73	JEF34 20
	DO 300 LP#2,3	JEF34 21
	S3#0.	JEF34 22
	ISW#0	JEF34 23
	IBEAN#LP-2	JEF34 24
	DO 301 I#1,6	JEF34 25
	IF %R%434&I&IBEAN#18<.EQ.0.< GO TO 301	JEF34 26
	S3#S3&1./R%434 &I&IBEAN#18<	JEF34 27
301	CONTINUE	JEF34 28
	GO TO %300,302,303<,LP	JEF34 29
302	IBEG#12	JEF34 30
	IEND#14	JEF34 31
	IADD#5	JEF34 32
	GO TO 304	JEF34 33
303	IBEG#11	JEF34 34
	IEND#14	JEF34 35
	IADD#52	JEF34 36
304	DO 305 J#IBEG,IEND	JEF34 37
	JJ#J&IADD	JEF34 38
	TAB3%J,LP<#RCOL%JJ,IRNK<#S3&TAB3%J,LP<	JEF34 39
305	CONTINUE	JEF34 40
	IF %ISW.EQ.1< GO TO 300	JEF34 41
	GO TO %300,306,307<,LP	JEF34 42
306	IBEG#3	JEF34 43
	IEND#8	JEF34 44
	IADD#18	JEF34 45
	ISW#1	JEF34 46
	GO TO 304	JEF34 47
307	IBEG#3	JEF34 48

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1ACHR%3<,ACRES%2,11<,PROD%2,11<,PRICE%11<,SOL%2,16<,VC%2,12,9<, COMDI 2
2AVCT%2,9<,UVCT%2,3<,FCT%2,4<,TCSTS%2<,PROFT%2<,AVC%2,8<,AVY%2,8<, COMDI 3
3AVS%2,8<,AVRT%2,8<,AMO%2,2<,COMBH%2,3<,TACR%2,3<,TCOMB%2<,RHS%41< COMDI 4
4,AWORK%12,18<,BWORK%12,18<,CLPRP,SLPRP,HLPRP,DCPRP,CCLAB,SCLAB, COMDI 5
5WCLAB,IPAGE,IOUT,INPT,IRNK,CTA%2,3,3<,BTA%2,3,3<,TCOMBI%2<,IO COMDI 6
6,RSHAD%83,2<,NMAX,IDENT,CHLAB,SHLAB,WHLAB,SICLAB JEF27 1
7,AWRK%6,18<,BWRK%6,18<,SWRK%6,12< JEF34 1
COMMON /INT2/TACRE%3,6,4<,TPROD%2,6,4<,STACR%2,4<,STPRD%2,4<, COMMN 1
1APRP%3,15<,PPLNT%10<,DD%41<,SHAD%41<,TAB%16,8<,TABB%16,6< COMMM 2
2,SPLNT%6<,WHAR,SHAR%2<,DCHAR JEF8 1
3,TAB3%16,9< JEF34 1
REAL*8 NAM1%30<,NAM2%15,2<,KDATE1%14<,KDATE2%7,2<,LDATE1%10<, RPT1 4
1LDATE2%5,2<,JDATE1%6<,JDATE2%3,2< RPT1 5
EQUIVALENCE %NAM2%1,1<,NAM1%1<,, RPT1 24
1%KDATE2%1,1<,KDATE1%1<,,%LDATE2%1,1<,LDATE1%1<,,%JDATE2%1,1<, RPT1 25
2JDATE1%1<,, RPT1 26
EQUIVALENCE %IO,IO< RPT1 27
DATA NAM1 /8HMAR.15-A,8HAPR. 5-A,8HAPR.26-M, RPT1 6
18HMAY 3-M,8HMAY 10-M,8HMAY 17-M,8HMAY 24-M RPT1 7
28HMAY 31-J,8HJUNE 7-J,8HJUNE14-J,8HSEP.13-S RPT1 8
3 8HSEP.27-O,8HOCT.18-N,8HNOV. 5-N,8HNOV.29-M,8HPR.4 JEF28 1
4,8HPR.25 ,8HAY 2 ,8HAY 9 ,8HAY 16 ,8HAY 23 ,8HAY 30 RPT1 10
5,8HUNE 6 ,8HUNE13 ,8HULY18 ,8HEP.26 ,8HCT.17 ,8HOV. 7 RPT1 11
6,8HOV.28 ,8HAR.14 JEF28 2
DATA KDATE1 / 8HAPR.26-M, RPT1 13
18HMAY 3-M,8HMAY 10-M,8HMAY 17-M,8HMAY 24-M RPT1 14
28HMAY 31-J,8HJUNE 7-J RPT1 15
3 ,8HAY 2 ,8HAY 9 ,8HAY 16 ,8HAY 23 ,8HAY 30 RPT1 16
4,8HUNE 6 ,8HUNE13 RPT1 17
DATA LDATE1 / 8HSEP.13-S RPT1 18
3 8HSEP.27-O,8HOCT.18-N,8HNOV. 5-N,8HNOV.29-M, JEF29 1
5 ,8HEP.26 ,8HCT.17 ,8HOV. 7 RPT1 20
6,8HOV.28 ,8HAR.14 JEF29 2
DATA JDATE1 /8HSEPTEMBER,8OCTOBER ,8HNOVEMBER,8HR RPT1 22
1 ,8H RPT1 23
205 FORMAT%5X,12,2H,2A8,F9,2,F16,2 RPT1 28
255 FORMAT%1X,10A4,@0,S,U,CROPPING BUDGET PAGE@,14/@0 TABLE 1.@,25X,RPT1 29
1@PRESENT PLAN OPTIMAL PLAN@/3X,@NET RETURNS TO MGT.@,14X,@$,RPT1 30
2F9.0,8X,@$,F8.0/3X,@ACRES CORN GRAIN@,F27.0,F17.0/3X,@ACRES CORN JEF1 1
3SILAGE@,F26.0,F17.0/3X,@ACRES SOYBEANS@,F29.0,F17.0/3X,@ACRES WHEARPT1 32
4T@,F32.0,F17.0/3X,@ACRES DOUBLE-CROP BEANS@,F20.0,F17.0/3X,@ACRES RPT1 33
5NOT USED@,F29.0,F17.0/3X,@ACRES RENTED OUT@,F27.0,F17.0/3X,@HOURS RPT1 34
6CUSTOM COMBINE HIRED OUT@,F13.0,F17.0 RPT1 35
256 FORMAT%65H0 THE FOLLOWING RESOURCES LIMIT THE EXPANSION OF YOURRPT1 36
1 FIRM AND/5X,26H HAVE THE FOLLOWING VALUES./5X,28H(FOR AT LEAST SMARPT1 37
2LL AMOUNTS)< RPT1 38
257 FORMAT%1H0,27X,20HVALUE PER ADDITIONAL RPT1 39
258 FORMAT%7X,8HRESOURCE,17X,13HUNIT ($/UNIT)/25X,27HPRESENT PLAN OPRPT1 40
1TIMUM PLAN/1H0< RPT1 41
ISW#0 RPT1 42
K#0 RPT1 43
IPAGE#IPAGE&1 RPT1 44
TEMP#R%28<R%561<-TACR%1,1<-ACRES%1,10<-TACR%1,2<-ACRES%1,7<- JEF26 1
1BCSUL%1,2,1< JEF26 2
TEMP1#R%28<R%561<-TACR%2,1<-ACRES%2,10<-TACR%2,2<-ACRES%2,7<- JEF26 3
1BCSUL%2,2,1< JEF26 4
IF %TEMP.LE.0.< TEMP#0. RPT1 49
IF %TEMP1.LE.0.< TEMP1#0. RPT1 50
WRITE%IO,255<%HEAD%I<,I#1,10<,IPAGE,%PROFT%I<,I#1,2<,%TACR%I,1<,, CHNG 776
1I#1,2<,%ACRES%I,10<,I#1,2<,%TACR%I,2<,I#1,2<,%ACRES%I,7<,I#1,2<,, CHNG 777

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322	TAB3%J,I<#TAB3%J,I<&RCOL%IC,IRNK<#R%486<	JEF34109
318	CONTINUE	JEF34110
C	TRACTOR USAGE CORN AND SOYBEAN HARVEST--CORN ONLY OR SOYBEAN ONLY	JEF34111
C	COMBINE	JEF34112
	DO 323 I#2,3	JEF34113
	GO TO %323,324,325<,I	JEF34114
324	IC#164	JEF34115
	IBEG#12	JEF34116
	IEND#14	JEF34117
	GO TO 326	JEF34118
325	IC#167	JEF34119
	IBEG#11	JEF34120
	IEND#13	JEF34121
326	DO 327 J#IBEG,IEND	JEF34122
	IC#IC&1	JEF34123
	TAB3%J,I<#TAB3%J,I<&RCOL%IC,IRNK<#R%486<	JEF34124
327	CONTINUE	JEF34125
323	CONTINUE	JEF34126
C	TRACTOR HOURS D.C. SOYBEAN HARVEST	JEF34127
	IF %TAB3%13,3<.EQ.0.< GO TO 338	JEF34128
	C#R%505<-R%500<</15.	JEF34129
	B#C#%30.-R%535<<&R%505<	JEF34130
	A#BIG	JEF34131
	IF %B.GT.0.< A#1./B	JEF34132
	TEMP#RCOL%126,IRNK<#A&RCOL%127,IRNK<#A	JEF34133
	TEMP#TEMP/TAB3%13,3<	JEF34134
	TAB3%13,4<#TAB3%13,4<&TAB3%13,3<#TEMP	JEF34135
	TAB3%13,3<#TAB3%13,3<-#TAB3%13,3<#TEMP<	JEF34136
C	CALCULATE COLUMN 7	JEF34137
338	DO 328 I#1,15	JEF34138
	DO 329 J#2,4	JEF34139
	TAB3%I,7<#TAB3%I,7<&TAB3%I,J<	JEF34140
329	CONTINUE	JEF34141
	TAB3%I,7<#TAB3%I,7<&TAB3%I,6<	JEF34142
328	CONTINUE	JEF34143
	DO 330 I#3,8	JEF34144
	J#41&I	JEF34145
	IF %RSOL%J,IRNK<.GE.0.< GO TO 331	JEF34146
	TAB3%I,9<#-RSOL%J,IRNK<	JEF34147
	GO TO 330	JEF34148
331	TAB3%I,8<#RSOL%J,IRNK<	JEF34149
330	CONTINUE	JEF34150
	DO 334 I#11,14	JEF34151
	J#I&39	JEF34152
	IF %RSOL%J,IRNK<.GE.0.< GO TO 335	JEF34153
	TAB3%I,9<#-RSOL%J,IRNK<	JEF34154
	GO TO 334	JEF34155
335	TAB3%I,8<#RSOL%J,IRNK<	JEF34156
334	CONTINUE	JEF34157
	DO 332 J#1,8	JEF34158
	DO 333 I#1,15	JEF34159
	TAB3%16,J<#TAB3%16,J<&TAB3%I,J<	JEF34160
333	CONTINUE	JEF34161
332	CONTINUE	JEF34162
	RETURN	JEF34163
	END	COMPT410
	SUBROUTINE RPT1	COMPT411
	REAL#8 IDENT	RPT1 1
	COMMON/INT1/R%600<,RSOL%116,2<,RCOL%186,2<,BCSOL%2,46,2<,HEAD%10<,JEF18 1	CHNG 10

380	CONTINUE	RPT1	113
	ISW#-1	RPT1	114
	DO 300 I#25,30	RPT1	115
	IF %RSOL%I,1<.GE.0..AND.RSOL%I,2<.GE.0.< GO TO 300	RPT1	116
	ISW#ISW&1	RPT1	117
	IF%ISW-1<298,299,299	RPT1	118
298	WRITE%IO,240<	RPT1	119
240	FORMAT%23H FIELD HOURS-PLANTING<	RPT1	120
299	K#K&1	RPT1	121
	J#I-22	RPT1	122
	M#I&4	RPT1	123
	WRITE%IO,205<K,%NAM2%J,JJK,JJ#1,2<,%RSHAD%M,L<,L#1,2<	RPT1	124
300	CONTINUE	RPT1	125
	ISW#-1	RPT1	126
	DO 305 I#31,38	RPT1	127
	IF %RSOL%I,1<.GE.0..AND.RSOL%I,2<.GE.0.< GO TO 305	RPT1	128
	ISW#ISW&1	RPT1	129
	IF%ISW-1<302,301,301	RPT1	130
302	WRITE%IO,241<	RPT1	131
241	FORMAT%14H FIELD HOURS/18H -POST PLANTING<	RPT1	132
301	K#K&1	RPT1	133
	J#I-28	RPT1	134
	M#I&4	RPT1	135
	WRITE%IO,205<K,%NAM2%J,JJK,JJ#1,2<,%RSHAD%M,L<,L#1,2<	RPT1	136
305	CONTINUE	RPT1	137
	ISW#-1	RPT1	138
	DO 310 I#44,53	RPT1	139
	IF %RSOL%I,1<.GE.0..AND.RSOL%I,2<.GE.0.< GO TO 310	RPT1	140
	ISW#ISW&1	RPT1	141
	IF%ISW-1<307,306,306	RPT1	142
307	WRITE%IO,242<	RPT1	143
242	FORMAT%16H TRACTOR HOURS<	RPT1	144
306	K#K&1	RPT1	145
	J#I-41	RPT1	146
	IF %I.GT.49< J#J&2	RPT1	147
	M#I-1	RPT1	148
	WRITE%IO,205<K,%NAM2%J,JJK,JJ#1,2<,%RSHAD%M,L<,L#1,2<	RPT1	149
310	CONTINUE	RPT1	150
	IF %RSOL%116,1<.GE.0..AND.RSOL%116,2<.GE.0.< GO TO 403	RPT1	151
	WRITE%IO,2<	RPT1	152
2	FORMAT%14H FIELD HOURS/21H -WHEAT HARVESTING<	RPT1	153
	K#K&1	RPT1	154
	WRITE%IO,3< K,%RSHAD%59,L<,L#1,2<	RPT1	155
3	FORMAT%5X,I2,. JUNE14-JULY18@,F12.2,F16.2<	RPT1	156
403	ISW#-1	RPT1	157
C	AGREAGE CONTROL	RPT1	158
	IF %RSOL%2,1<.GE.0..AND.RSOL%2,2<.GE.0.< GO TO 321	RPT1	159
	WRITE%IO,244<	RPT1	160
244	FORMAT%15H LAND ACREAGE<	RPT1	161
	K#K&1	RPT1	162
	WRITE%IO,295<K,%RSHAD%62,L<,L#1,2<	RPT1	163
295	FORMAT%5X,I2,. ACRE@,F21.2,F16.2<	UPDAT1	9
321	IF %RSOL%102,1<.GE.0..AND.RSOL%102,2<.GE.0.< GO TO 185	RPT1	165
	K#K&1	RPT1	166
	WRITE%IO,12< K,%RSHAD%74,L<,L#1,2<	RPT1	167
12	FORMAT%5X,I2,. FALL LAND PREP LMT@,F7.2,F16.2<	RPT1	168
C	LAND RENTED	RPT1	169
185	ISW#-1	RPT1	170
	DO 390 I#2,3	RPT1	171
	IF %BCSOL%1,I,2<.GE.0..AND.BCSOL%2,I,2<.GE.0.< GO TO 390	RPT1	172

	2%TACR%I,3<,I#1,2<,TEMP,TEMP1,%BCSOL%I,2,1<,I#1,2<,%TCOMB%I<,I#1,2<	RPT1	53
	WRITE%IO,256<	RPT1	54
	WRITE%IO,257<	RPT1	55
	WRITE%IO,258<	RPT1	56
C	OWN LABOUR HOURS	RPT1	57
	ISW#-1	RPT1	58
	IF %RCOL%162,1<.GE.0...AND.RCOL%162,2<.GE.0.< GO TO 100	RPT1	59
	DO 330 J#1,2	RPT1	60
	IF %RSOL%18,1<.GE.0...AND.RSOL%18,2<.GE.0.< GO TO 330	RPT1	61
	ISW#ISW&1	RPT1	62
	IF%ISW-1<336,335,335	RPT1	63
336	WRITE%IO,245<	RPT1	64
245	FORMAT%18H OWN LABOR HOURS<	RPT1	65
335	K#K&1	RPT1	66
	WRITE%IO,205<K,%NAM2%J,JJ<,JJ#1,2<,%RSHAD%J,L<,L#1,2<	RPT1	67
330	CONTINUE	RPT1	68
100	DO 340 I#6,18	RPT1	69
	IF %RCOL%I&144,1<.GT.0...AND.RCOL%I&144,2<.GT.0.< GO TO 340	RPT1	70
	IF %RSOL%I,1<.GE.0...AND.RSOL%I,2<.GE.0.< GO TO 340	RPT1	71
	ISW#ISW&1	RPT1	72
	IF%ISW-1<346,345,345	RPT1	73
346	WRITE%IO,245<	RPT1	74
345	K#K&1	RPT1	75
	J#I-3	RPT1	76
	WRITE%IO,205<K,%NAM2%J,JJ<,JJ#1,2<,%RSHAD%J,L<,L#1,2<	RPT1	77
C	340 CONTINUE	RPT1	78
	FIELD HOURS TO PREPARE LAND IN THE SPRING	RPT1	79
	ISW#-1	RPT1	80
	DO 360 I#19,24	RPT1	81
	IF %RSOL%I,1<.GE.0...AND.RSOL%I,2<.GE.0.< GO TO 360	RPT1	82
	ISW#ISW&1	RPT1	83
	IF%ISW-1<365,366,366	RPT1	84
365	WRITE%IO,248<	RPT1	85
248	FORMAT%a FIELD HOURS TO PREPARE LAND@<	RPT1	86
366	K#K&1	RPT1	87
	J#I-16	JEF31	1
	M#I-3	RPT1	89
	WRITE%IO,205<K,%NAM2%J,JJ<,JJ#1,2<,%RSHAD%M,L<,L#1,2<	RPT1	90
C	360 CONTINUE	RPT1	91
	FIELD HOURS TO PREPARE LAND IN THE FALL	RPT1	92
	ISW#-1	RPT1	93
	DO 370 J#1,2	RPT1	94
	IF %RSOL%43,1<.GE.0...AND.RSOL%43,2<.GE.0.< GO TO 370	RPT1	95
	ISW#ISW&1	RPT1	96
	IF%ISW-1<374,375,375	RPT1	97
374	WRITE%IO,249<	RPT1	98
249	FORMAT%a FIELD HOURS TO PREPARE LAND@<	RPT1	99
375	K#K&1	RPT1	100
	I#J&21	RPT1	101
	WRITE%IO,205<K,%NAM2%J,JJ<,JJ#1,2<,%RSHAD%I,L<,L#1,2<	RPT1	102
370	CONTINUE	RPT1	103
	DO 380 I#39,43	RPT1	104
	IF %RSOL%I,1<.GE.0...AND.RSOL%I,2<.GE.0.< GO TO 380	RPT1	105
	ISW#ISW&1	RPT1	106
	IF%ISW-1<385,386,386	RPT1	107
385	WRITE%IO,249<	RPT1	108
386	K#K&1	RPT1	109
	J#I-28	RPT1	110
	M#I-15	RPT1	111
	WRITE%IO,205<K,%NAM2%J,JJ<,JJ#1,2<,%RSHAD%M,L<,L#1,2<	RPT1	112

10	IF%ISW-1<.LT.0.< WRITE%IO,5<	RPT1	226
414	WRITE%IO,10< K,%RSHAD%73,L<,L#1,2<	RPT1	227
	FORMAT%5X,I2,@.SILAGE@,F19.2,F16.2<	RPT1	228
	ISW#0	RPT1	229
	IF %R%493<.EQ.0.< GO TO 435	RPT1	230
	DO 415 I#44,45	JEF31	2
	IF %BCSOL%1,I,2<.GE.0..AND.BCSOL%2,I,2<.GE.0.< GO TO 415	JEF31	3
	ISW#ISW&1	RPT1	233
415	CONTINUE	RPT1	234
435	IF %R%490<.EQ.0.< GO TO 436	RPT1	235
	DO 416 I#113,115	RPT1	236
	IF %RSOL%I,1<.GE.0..AND.RSOL%I,2<.GE.0.< GO TO 416	RPT1	237
	ISW#ISW&1	RPT1	238
416	CONTINUE	RPT1	239
436	IF %R%489<.EQ.0.< GO TO 437	RPT1	240
	DO 417 I#110,112	RPT1	241
	IF %RSOL%I,1<.GE.0..AND.RSOL%I,2<.GE.0.< GO TO 417	RPT1	242
	ISW#ISW&1	RPT1	243
417	CONTINUE	RPT1	244
437	IF %R%491<.EQ.0.< GO TO 438	RPT1	245
	DO 418 I#95,97	RPT1	247
	IF %RSOL%I,1<.GE.0..AND.RSOL%I,2<.GE.0.< GO TO 418	RPT1	248
	ISW#ISW&1	RPT1	249
418	CONTINUE	RPT1	250
	DO 419 I#95,97	RPT1	251
	IF %RSOL%I,1<.GE.0..AND.RSOL%I,2<.GE.0.< GO TO 419	RPT1	252
	ISW#ISW&1	RPT1	253
419	CONTINUE	RPT1	254
438	IF %ISW.LE.0< GO TO 434	RPT1	255
	WRITE%IO,15<	RPT1	256
15	FORMAT%@ HARVESTING TIME@<	RPT1	257
	IF %R%493<.EQ.0.< GO TO 4210	RPT1	258
	ISW#-1	JEF31	4
	DO 420 I#44,45	JEF31	5
	IF %BCSOL%1,I,2<.GE.0..AND.BCSOL%2,I,2<.GE.0.< GO TO 420	RPT1	261
	ISW#ISW&1	RPT1	262
421	IF %ISW-1< 421,422,422	RPT1	263
	WRITE%IO,16<	RPT1	264
16	FORMAT%@ SILAGE COMBINE@<	RPT1	265
422	K%K&1	JEF31	6
	J#I-33	JEF31	7
	M#I&37	RPT1	268
	WRITE%IO,205< K,%NAM2%J,JJ<,JJ#1,2<,%RSHAD%M,L<,L#1,2<	RPT1	269
420	CONTINUE	RPT1	270
4210	IF %R%490<.EQ.0.< GO TO 4230	RPT1	271
	ISW#-1	RPT1	272
	DO 4221 I#113,115	RPT1	273
	IF %RSOL%I,1<.GE.0..AND.RSOL%I,2<.GE.0.< GO TO 4221	RPT1	274
	ISW#ISW&1	RPT1	275
	IF%ISW-1< 423,424,424	RPT1	276
423	WRITE%IO,17<	RPT1	277
17	FORMAT%@ SOYBEAN ONLY COMBINE@<	RPT1	278
424	K%K&1	RPT1	279
	J#I-102	RPT1	280
	M#I-60	RPT1	281
	WRITE%IO,205< K,%NAM2%J,JJ<,JJ#1,2<,%RSHAD%M,L<,L#1,2<	RPT1	282
4221	CONTINUE	RPT1	283
4230	IF %R%489<.EQ.0.< GO TO 427	RPT1	284
	ISW#-1	RPT1	285
	DO 4240 I#110,112		

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ISW#ISW&1
IF%ISW-1<395,396,396
395 WRITE%IO,250<
250 FORMAT%14H LAND RENTED<
396 K#K&1
M#I&61
IF %I.EQ.2< WRITE%IO,251< K,%RSHAD%M,L<,L#1,2<
IF %I.EQ.3< WRITE%IO,11< K,%RSHAD%M,L<,L#1,2<
11 FORMAT%5X,I2,@. LAND RENTED IN@,F11.2,F16.2<
251 FORMAT%5X,I2,@. LAND RENTED OUT@,F10.2,F16.2<
390 CONTINUE
C DRYER CAPACITY
ISW#-1
DO 397 I#60,63
IF %RSOL%I,1<.GE.0...AND.RSOL%I,2<.GE.0.< GO TO 397
ISW#ISW&1
IF%ISW-1<398,399,399
398 WRITE%IO,252<
252 FORMAT%17H DRYER CAPACITY<
399 K#K&1
J#I-1
M#I&5
WRITE%IO,205< K,%NAM2%J,JJ<,JJ#1,2<,%RSHAD%M,L<,L#1,2<
397 CONTINUE
IF %RSOL%64,1<.GE.0...AND.RSOL%64,2<.GE.0.< GO TO 450
ISW#ISW&1
IF %ISW-1< 451,452,452
451 WRITE%IO,252<
452 K#K&1
WRITE%IO,453< K,%RSHAD%83,L<,L#1,2<
453 FORMAT%5X,I2,@. STORAGE CAPACITY@,F9.2,F16.2<
450 ISW#-1
DO 407 I#3,5
IF %RSOL%I,1<.GE.0...AND.RSOL%I,2<.GE.0.< GO TO 407
ISW#ISW&1
IF %ISW-1< 408,409,409
408 WRITE%IO,5<
5 FORMAT%15H CROP ACREAGE<
409 K#K&1
II#I-2
M#I&66
GO TO %410,411,412<,II
410 WRITE%IO,6< K,%RSHAD%M,L<,L#1,2<
6 FORMAT%5X,I2,@. CORN ACRE@,2F16.2<
GO TO 407
411 WRITE%IO,7< K,%RSHAD%M,L<,L#1,2<
7 FORMAT%5X,I2,@. SOYBEANS ACRE@,F12.2,F16.2<
GO TO 407
412 WRITE%IO,8< K,%RSHAD%M,L<,L#1,2<
8 FORMAT%5X,I2,@. WHEAT ACRE@,F15.2,F16.2<
407 CONTINUE
IF %RSOL%101,1<.GE.0...AND.RSOL%101,2<.GE.0.< GO TO 413
ISW#ISW&1
K#K&1
IF%%ISW-1<.LT.0< WRITE%IO,5<
WRITE%IO,9< K,%RSHAD%72,L<,L#1,2<
9 FORMAT%5X,I2,@. D.C. SOYBEANS@,F12.2,F16.2<
413 IF %RSOL%100,1<.GE.0...AND.RSOL%100,2<.GE.0.< GO TO 414
ISW#ISW&1
K#K&1

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RPT1 173
RPT1 174
RPT1 175
RPT1 176
RPT1 177
RPT1 178
RPT1 179
RPT1 180
RPT1 181
RPT1 182
RPT1 183
RPT1 184
RPT1 185
RPT1 186
RPT1 187
RPT1 188
RPT1 189
RPT1 190
RPT1 191
RPT1 192
RPT1 193
RPT1 194
RPT1 195
RPT1 196
JEF27 1
JEF27 2
JEF27 3
JEF27 4
JEF27 5
JEF27 6
JEF27 77
JEF27 8
RPT1 198
RPT1 199
RPT1 200
RPT1 201
RPT1 202
UPDAT110
RPT1 204
RPT1 205
RPT1 206
RPT1 207
RPT1 208
-PT1 209
RPT1 210
RPT1 211
RPT1 212
RPT1 213
RPT1 214
RPT1 215
RPT1 216
RPT1 217
RPT1 218
RPT1 219
RPT1 220
RPT1 221
RPT1 222
RPT1 223
RPT1 224
RPT1 225

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	DO 4 I#1,6	ARTSI	6
	K%ICOLEI	ARTSI	7
	IF %RCOL%K,1<.LE.0.< GO TO 4	ARTSI	8
	IF%IOUT.NE.0< GO TO 2	ARTSI	9
	WRITE%IO,1<	ARTSI	10
1	FORMAT%01 SILAGE ERROR REPORT@,/@ FOR THE FOLLOWING PLANTING PERIOD	JEF22	1
	1DS YOUR SILAGE REQUIREMENTS ARE INFEASIBLE@/@ TO RECTIFY THIS CHECK	ARTSI	12
	2K YOUR AVAILABILITY OF LAND, LABOR, TRACTORS AND FIELDTIME FOR, P	ARTSI	13
	3STPLANTING AND HARVESTING@/@ SILAGE SPRING WORK IS IDENTICAL TO C	ARTSI	14
	4ORN INCLUDING POST PLANT REQUIREMENTS@/@ THE VALUE OF ADDITIONAL	JEF22	2
	5RESOURCES SHOULD AID YOU IN YOUR CORRECTIONS@/@@<	JEF22	3
2	WRITE%IO,3< I	ARTSI	17
3	FORMAT%0 SILAGE PLANTING PERIOD NO.@,I4<	ARTSI	18
4	CONTINUE	ARTSI	19
	RETURN	ARTSI	20
	END	ARTSI	21
	SUBROUTINE RPT2	RPT2	1
	REAL#8 IDENT	CHNG	10
	REAL#8 CDATE	CHNG	20
	COMMON/INT1/R%600<,RSOL%116,2<,RCDL%186,2<,BCSDL%2,46,2<,HEAD%10<,	JEF18	1
	1ACH%3<,ACRES%2,11<,PROD%2,11<,PRICE%11<,SOL%2,16<,VC%2,12,9<,	COMDI	2
	2AVCT%2,9<,UVCT%2,3<,FCT%2,4<,TCSTS%2<,PROFT%2<,AVC%2,8<,AVY%2,8<,	COMDI	3
	3AVS%2,8<,AVRT%2,8<,AMOI%2,2<,COMBH%2,3<,TACR%2,3<,TCOMB%2<,RHS%41<	COMDI	4
	4,AWORK%12,18<,BWORK%12,18<,CLPRP,SLPRP,WLPRP,DCPRP,CCLAB,SCLAB,	COMDI	5
	5WCLAB,IPAGE,IOUT,INPT,IRNK,CTA%2,3,3<,BTA%2,3,3<,TCOMBI%2<,IO	COMDI	6
	6,RSHAD%83,2<,NMAX,IDENT,CHLAB,SHLAB,WHLAB,SICLAB	JEF27	1
	7,AWRK%6,18<,BWRK%6,18<,SWRK%6,12<	JEF34	1
	COMMON /INT2/IACRE%3,6,4<,TPROD%2,6,4<,STACR%2,4<,STPRD%2,4<,	COMMN	1
	1APRP%3,15<,PPLNT%10<,DD%41<,DDD%41<,SHAD%41<,TAB%16,8<,TABB%16,6<	COMMN	2
	2,SPLNT%6<,WHAR,SHAR%2<,DCHAR	JEF8	1
	3,TAB3%16,9<	JEF34	1
200	FORMAT%1H1,40X,27HQ.S.U. CROPPING BUDGET PAGE ,I4/ 31HQ.O.S.	URPT2	4
	1. CROP ENTERPRISE BUDGET,9X,21HDATE OF COMPUTER RUN ,I2,1H/,I2,1H/	RPT2	4.5
	2,I4<	RPT2	5
202	FORMAT%00 PLAN IDENTIFICATION @,A7,1X,10A4<	RPT2	6
210	FORMAT%2HO ,70%1H* <<	RPT2	7
211	FORMAT%67HO TABLE 2. PROFIT AND LOSS COMPARISON FOR PRESENT AND OP	RPT2	8
	*TIMJM PLANS<	RPT2	9
212	FORMAT%1HO,48X,@PRESENT@,8X,@OPTIMUM@/16X,@ITEM@,31X,@PLAN@,11X,@P	RPT2	10
	*LAN@/@ INCOME@<	RPT2	11
213	FORMAT%0 1. DRY CORN SALES@,27X,F10.0,F15.0<	RPT2	12
214	FORMAT%0 2. WET CORN SALES@, 27X,F10.0,F15.0<	-PT2	13
215	FORMAT%0 3. STORED CORN SALES@,24X,F10.0,F15.0<	-PT2	14
216	FORMAT%0 4. DRY SOYBEAN SALES@,24X,F10.0,F15.0<	RPT2	15
217	FORMAT%0 5. WET SOYBEAN SALES@,24X,F10.0,F15.0<	RPT2	16
218	FORMAT%0 6. STORED SOYBEAN SALES@,21X,F10.0,F15.0<	RPT2	17
219	FORMAT%0 7. WHEAT SALES@,30X,F10.0,F15.0<	RPT2	18
221	FORMAT%0 9. SILAGE@,35X,F10.0,F15.0<	RPT2	19
222	FORMAT%0 9. LAND RENTED OUT@,26X,F10.0,F15.0<	RPT2	20
223	FORMAT%0 10. COMBINING HIRED OUT@,22X,F10.0,F15.0<	RPT2	21
224	FORMAT%48X,10%1H-<,5X,9%1H-<<	JEF30	1
225	FORMAT%16H TOTAL INCOME,31X,F10.0,F15.0<	RPT2	23
2241	FORMAT%48X,10%1H=<,5X,9%1H=<<	JEF30	2
226	FORMAT%26H ALLLOCATED VARIABLE COSTS<	RPT2	25
227	FORMAT%0 1. FERTILIZER@,31X,F10.0,F15.0<	RPT2	26
228	FORMAT%0 2. SEE @,37X,F10.0,F15.0<	-PT2	27
229	FORMAT%0 3. INSECTICIDE AND/OR HERBICIDE@,13X,F10.0,F15.0<	RPT2	28
230	FORMAT%0 4. FUEL,LUBRICANT,REPAIRS@,19X,F10.0,F15.0<	RPT2	29
231	FORMAT%0 5. DRYING AT FARM@,27X,F10.0,F15.0<	RPT2	30
232	FORMAT%0 6. DRYING AT ELEVATOR@,23X,F10.0,F15.0<	RPT2	31

	IF%RSOL%I,1<.GE..0..AND.RSOL%I,2<.GE.0.< GO TO 4240	RPT1 286
	ISW#ISW&1	RPT1 287
	IF %ISW-1< 425,426,426	RPT1 288
425	WRITE%IO,18<	RPT1 289
18	FORMAT%a CORN ONLY COMBINEa<	RPT1 290
426	K#K&1	RPT1 291
	J#I-98	RPT1 292
	M#I-54	RPT1 293
	WRITE%IO,205< K,%NAM2%J,JJ<,JJ#1,2<,%RSHAD%M,L<,L#1,2<	RPT1 294
4240	CONTINUE	RPT1 295
427	IF %R%491<.EQ.0.< GO TO 434	RPT1 296
	ISW#-1	RPT1 297
	DO 428 I#107,109	RPT1 298
	IF %RSOL%I,1<.GE.0..AND.RSOL%I,2<.GE.0.< GO TO 428	RPT1 299
	ISW#ISW&1	RPT1 300
	IF %ISW-1< 429,430,430	RPT1 301
429	WRITE%IO,19<	RPT1 302
19	FORMAT%a SOYBEANS--CORN-SOYBEANA/a COMBINEa<	RPT1 303
430	K#K&1	RPT1 304
	J#I-96	RPT1 305
	M#I-22	RPT1 306
	WRITE%IO,205< K,%NAM2%J,JJ<,JJ#1,2<,%RSHAD%M,L<,L#1,2<	RPT1 307
428	CONTINUE	RPT1 308
	ISW#-1	RPT1 309
	DO 431 I#95,97	RPT1 310
	IF %RSOL%I,1<.GE.0..AND.RSOL%I,2<.GE.0.< GO TO 431	RPT1 311
	ISW#ISW&1	RPT1 312
	IF %ISW-1< 432,433,433	RPT1 313
432	WRITE%IO,20<	RPT1 314
20	FORMAT%a CORN--CORN-SOYBEANA/a COMBINEa<	RPT1 315
433	K#K&1	RPT1 316
	J#I-83	RPT1 317
	M#I-17	RPT1 318
	WRITE%IO,205< K,%NAM2%J,JJ<,JJ#1,2<,%RSHAD%M,L<,L#1,2<	RPT1 319
431	CONTINUE	RPT1 320
434	WRITE%IO,253<	RPT1 321
	WRITE%IO,254<	RPT1 322
253	FORMAT%3X,62%1H* <<	RPT1 323
254	FORMAT%1H0,7X,a--YOU KNOW ALL OF A RESOURCE WAS USED WHEN IT APPEAR	RPT1 324
	1RS IN THISa/8X,aTABLE. IF YOU COULD SOMEHOW ACQUIRE ONE MORE UNIT	RPT1 325
	2 (AT NOa/8X,aCHARGE), NET PROFIT WOULD INCREASE BY THE AMOUNT IN C	RPT1 326
	3 COLUMN 1.a<	RPT1 327
	RETURN	RPT1 329
	END	RPT1 330
	SUBROUTINE ARTSIL	ARTSI 1
	REAL#8 IDENT	CHNG 10
	COMMON/INT1/R%600<,RSOL%116,2<,RCOL%186,2<,BCSOL%2,46,2<,HEAD%10<,	JEF18 1
	1ALCHK%3<,ACRES%2,11<,PROD%2,11<,PRICE%11<,SOL%2,16<,VC%2,12,9<,	CUMDI 2
	2AVCT%2,9<,UVCT%2,3<,FCT%2,4<,TCSTS%2<,PROFT%2<,AVC%2,8<,AVY%2,8<,	COMDI 3
	3AVS%2,8<,AVRT%2,8<,AMOI%2,2<,COMBH%2,3<,TACR%2,3<,TCOMB%2<,RHS%41<	COMDI 4
	4,AWORK%12,18<,BWORK%12,18<,CLPRP,SLPRP,WLPRP,DCPRP,CCLAB,SCLAB,	COMDI 5
	5WCLAB,IPAGE,IOUT,INPT,IRNK,CTA%2,3,3<,BTA%2,3,3<,TCOMBI%2<,IO	COMDI 6
	6,RSHAD%83,2<,NMAX,IDENT,CHLAB,SHLAB,WHLAB,SICLAB	JEF27 1
	7,AWRK%6,18<,BWRK%6,18<,SWRK%6,12<	JEF34 1
	COMMON /INT2/TACRE%3,6,4<,TPROD%2,6,4<,STACR%2,4<,STPRD%2,4<,	COMMN 1
	1APRP%3,15<,PPLNT%10<,DD%41<,DDD%41<,SHAD%41<,TAB%16,8<,TABB%16,6<	COMMN 2
	2,SPLNT%6<,WHAR,SHAR%2<,DCHAR	JEF8 1
	3,TAB%16,9<	JEF34 1
	IOUT#0	ARTSI 4
	ICOL#179	ARTSI 5

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WRITE%6,2241<
WRITE%6,235<
WRITE%6,236<%UVCT%I,1<,I#1,2<
WRITE%6,237<%UVCT%I,2<,I#1,2<
WRITE%6,224<
WRITE%IO,239<%UVCT%I,3<,I#1,2<
WRITE%6,2241<
WRITE%6,240<
WRITE%IO,241<%FCT%I,1<,I#1,2<
WRITE%IO,242<%FCT%I,2<,I#1,2<
WRITE%IO,243<%FCT%I,3<,I#1,2<
WRITE%6,224<
WRITE%6,244<%FCT%I,4<,I#1,2<
WRITE%6,2241<
WRITE%6,245<%TCSTS%I<,I#1,2<
WRITE%6,2241<
WRITE%6,246<%PROFT%I<,I#1,2<
WRITE%6,2241<
WRITE%6,210<
RETURN
END
SUBROUTINE RPT3
REAL*8 IDENT
COMMON/INT1/R%600<,RSDL%116,2<,RCOL%186,2<,BCSDL%2,46,2<,HEAD%10<,JEFF18
1ACHR%3<,ACRES%2,11<,PROD%2,11<,PRICE%11<,SOL%2,16<,VC%2,12,9<,COMDI 2
2AVCT%2,9<,UVCT%2,3<,FCT%2,4<,TCSTS%2<,PROFT%2<,AVC%2,8<,AVY%2,8<,COMDI 3
3AVS%2,8<,AVRT%2,8<,AMO%2,2<,COMBH%2,3<,TACR%2,3<,TCOMB%2<,RHS%41<COMDI 4
4,AWORK%12,18<,BWORK%12,18<,CLPRP,SLPRP,WLPRP,DCPRP,CCLAB,SCLAB,COMDI 5
5WCLAB,IPAGE,IOUT,INPT,IRNK,CTA%2,3,3<,BTA%2,3,3<,TCOMBI%2<,IOCOMDI 6
6,RSHAD%83,2<,NMAX,IDENT,CHLAB,SHLAB,WHLAB,SICLABJEFF27 1
7,AWRK%6,18<,BWRK%6,18<,SWRK%6,12<JEFF34 1
COMMON/INT2/TACRE%3,6,4<,TPROD%2,6,4<,STACR%2,4<,STPRD%2,4<,COMMN 1
1APRP%3,15<,PPLNT%10<,DD%41<,DDD%41<,SHAD%41<,TAB%16,8<,TABB%16,6<COMMN 2
2,SPLNT%6<,WHAR,SHAR%2<,DCHARJEFF8 1
3,TAB3%16,9<JEFF34 1
DIMENSION VC1%2,9<,TSALES%2<,RATC%5<RPT3 4
209 FORMAT%2H0,128%1H*</1H0<RPT3 5
210 FORMAT%1H1,98X,@.S.U. CROPPING BUDGET PAGE@,I4/@ TABLE 3. PROJECRPT3 6
1TED ANNUAL PROFIT AND LOSS STATEMENT FOR THE OPTIMUM PLAN@<RPT3 7
211 FORMAT%1H0,59X,4HCORN,9X,10H$OYBEANS-*,10X,5HWHEAT,10X,@SILAGE@,10RPT3 8
1X,@TOTAL@<RPT3 9
212 FORMAT%17H0 A 1. SALES(FROM,F5.0,8H A.CORN,F4.0,11H A.SOYBEANS/RPT3 10
114X,F4.0,@ A.SILAGE@,F5.0,@ A.WHEAT OF WHICH@,/,RPT3 11
214X,F4.0,@ A.DOUBLE CROP SOYBEANS)@,16X,@$,F7.0,8X,1H$,F7.0,8X,1HRPT3 12
3$,F7.0,8X,1H$,F7.0,8X,1H$,F7.0<RPT3 13
213 FORMAT%35H 2. CUSTOM COMBINING HIRED OUT (,F5.0,6H HRS.),F20.0,RPT3 14
1 2F16.0,F32.0<RPT3 15
214 FORMAT%24H 3. LAND RENTED OUT (,F5.0,@ ACRES)@,87X,F7.0/122X,RPT3 16
* 8%1H-<<RPT3 17
215 FORMAT%33H B LESS-ALLOCATED VARIABLE COSTS<RPT3 18
216 FORMAT%7X,13H1. FERTILIZER,38X,1H$,F7.0,4%8X,1H$,F7.0<<RPT3 19
217 FORMAT%7X,@2. SEED @,36X,F7.0,4F16.0<RPT3 20
218 FORMAT%7X,31H3. INSECTICIDE AND/OR HERBICIDE,21X,F7.0,4F16.0<RPT3 21
219 FORMAT%7X,26H4. FUEL,LUBRICANTS,REPAIRS,26X,F7.0,4F16.0<RPT3 22
220 FORMAT%7X,17H5. DRIVING AT FARM,35X,F7.0,F16.0,41X,F7.0<RPT3 23
221 FORMAT%7X,21H6. DRIVING AT ELEVATOR,31X,F7.0,F16.0,41X,F7.0<RPT3 24
222 FORMAT%7X,28H7. INTEREST ON OP.FUNDS,MISC,F31.0,4F16.0<RPT3 25
223 FORMAT%7X,33H9. TOTAL ALLOCATED VARIABLE COSTS,F26.0,4F16.0/58XRPT3 26
18%1H-<,8X,8%1H-<,8X,8%1H-<,8X,8%1H-<,8X,8%1H-<RPT3 27
224 FORMAT%6X,38H10. RETURN TO ALLOCATED VARIABLE COSTS,F22.0,4F16.0/RPT3 28

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233	FORMAT%2	7. INTEREST ON OP. FUNDS, M10.0,14X,F10.0,F15.0<	-PT2	32
234	FORMAT%34H	TOTAL ALLOCATED VARIABLE COSTS,13X,F10.0,F15.0<	RPT2	33
235	FORMAT%28H	UNALLOCATED VARIABLE COSTS<	RPT2	34
236	FORMAT%2	1. ADDED LAND RENTAL,24X,F10.0,F15.0<	RPT2	35
237	FORMAT%2	2. PART-TIME HIRED LABOR,20X,F10.0,F15.0<	RPT2	36
238	FORMAT%2	8. CUSTOM COMBINING HIRED IN,16X,F10.0,F15.0<	RPT2	37
239	FORMAT%36H	TOTAL UNALLOCATED VARIABLE COSTS,11X,F10.0,F15.0<	RPT2	38
240	FORMAT%13H	FIXED COSTS<	RPT2	39
241	FORMAT%2	1. FIXED MACHINERY COSTS,20X,F10.0,F15.0<	RPT2	40
242	FORMAT%2	2. FIXED LABOR COSTS,24X,F10.0,F15.0<	RPT2	41
243	FORMAT%2	3. FIXED LAND COSTS,25X,F10.0,F15.0<	RPT2	42
244	FORMAT%21H	TOTAL FIXED COSTS,26X,F10.0,F15.0<	RPT2	43
245	FORMAT%15H	TOTAL COSTS,32X,F10.0,F15.0<	RPT2	44
246	FORMAT%40H	RETURNS TO MGT. BEFORE INCOME TAXES ,7X,F10.0,	RPT2	45
	*F15.0<		RPT2	46
248	FORMAT%32H	**INCLUDES DOUBLE CROP SOYBEANS<	RPT2	48
C	ZERO OUT SOLUTION ARRAYS		RPT2	49
	IPAGE#IPAGE&1		RPT2	50
	CALL IDATIM%IY,IM,ID,IT<		RPT2	51
	WRITE%IO,200< IPAGE,IM,ID,IY		RPT2	52
	WRITE%IO,202< IDENT,%HEAD%I<,I#1,10<		RPT2	53
	WRITE%IO,210<		RPT2	54
	WRITE%IO,211<		RPT2	55
	WRITE%IO,212<		RPT2	56
	WRITE%6,213< %SOL%J,2<,J#1,2<		RPT2	57
	WRITE%6,214< %SOL%J,1<,J#1,2<		RPT2	58
	WRITE%6,215< %SOL%J,3<,J#1,2<		RPT2	59
	TEM1#SOL%1,5<&SOL%1,9<		RPT2	60
	TEM2#SOL%2,5<&SOL%2,9<		RPT2	61
	WRITE%IO,216< TEM1,TEM2		RPT2	62
	TEM1#SOL%1,4<&SOL%1,8<		RPT2	63
	TEM2#SOL%2,4<&SOL%2,8<		RPT2	64
	WRITE%IO,217< TEM1,TEM2		RPT2	65
	TEM1#SOL%1,6<&SOL%1,11<		RPT2	66
	TEM2#SOL%2,6<&SOL%2,11<		RPT2	67
	WRITE%IO,218< TEM1,TEM2		RPT2	68
	WRITE%6,219< %SOL%J,7<,J#1,2<		RPT2	69
	WRITE%IO,221<%SOL%J,10<,J#1,2<		RPT2	70
	WRITE%IO,222< %SOL%J,12<,J#1,2<		RPT2	71
	TEM1#0.		RPT2	72
	TEM2#0.		RPT2	73
	DO 102 I#13,15		RPT2	74
	TEM1#TEM1&SOL%1,I<		RPT2	75
	TEM2#TEM2&SOL%2,I<		RPT2	76
102	CONTINUE		RPT2	77
	WRITE%IO,223< TEM1,TEM2		RPT2	78
	WRITE%6,224<		RPT2	79
	WRITE%IO,225< %SOL%J,16<,J#1,2<		RPT2	80
	WRITE%6,2241<		RPT2	81
	WRITE%6,226<		RPT2	82
	WRITE%6,227<%AVCT%I,1<,I#1,2<		RPT2	83
	WRITE%6,228<%AVCT%I,2<,I#1,2<		RPT2	84
	WRITE%6,229<%AVCT%I,3<,I#1,2<		RPT2	85
	WRITE%6,230<%AVCT%I,4<,I#1,2<		RPT2	86
	WRITE%6,231<%AVCT%I,5<,I#1,2<		RPT2	87
	WRITE%6,232<%AVCT%I,6<,I#1,2<		RPT2	88
	WRITE%6,233<%AVCT%I,7<,I#1,2<		RPT2	89
	WRITE%IO,238< %AVCT%I,8<,I#1,2<		RPT2	90
	WRITE%6,224<		RPT2	91
	WRITE%IO,234< %AVCT%I,9<,I#1,2<		RPT2	92

1050	CONTINUE	RPT3	89
	DO 1070 I#8,9	RPT3	90
	VC1%2,8<#VC1%2,8<&VC%IRNK,I,7<	RPT3	91
1070	CONTINUE	RPT3	92
	VC1%2,8<#VC1%2,8<&VC%IRNK,11,7<	RPT3	93
	DO 107 I#1,8	RPT3	94
	VC1%1,9<#VC1%1,9<&VC1%1,I<	RPT3	95
	VC1%2,9<#VC1%2,9<&VC1%2,I<	RPT3	96
107	CONTINUE	RPT3	97
	IPAGE#IPAGE&1	RPT3	98
	WRITE%IO,210< IPAGE	RPT3	99
	WRITE%6,211<	RPT3	100
	WRITE%IO,212<%TACR%IRNK,I<,I#1,2<,ACRES%IRNK,10<,ACRES%IRNK,7<,	RPT3	101
	1TACR%IRNK,3<,%TSALES%I<,I#1,2<,SOL%IRNK,7<,SOL%IRNK,10<,GSALES	RPT3	102
	TEM1%0	RPT3	103
	DO 108 I#13,15	RPT3	104
	TEM1#TEM1&SOL%IRNK,I<	RPT3	105
108	CONTINUE	RPT3	106
	WRITE%IO,213<TCOMB%IRNK<,SOL%IRNK,13<,SOL%IRNK,14<,SOL%IRNK,15<,	RPT3	107
	*TEM1	RPT3	108
	WRITE%IO,214<BCSOL%IRNK,2,1<,SOL%IRNK,12<	RPT3	109
	WRITE%6,215<	RPT3	110
	WRITE%IO,216<%VC1%I,1<,I#1,2<,VC%IRNK,7,1<,VC%IRNK,10,1<,AVCT%IRNK	RPT3	111
	1,1<	RPT3	112
	WRITE%IO,217<%VC1%I,2<,I#1,2<,VC%IRNK,7,2<,VC%IRNK,10,2<,AVCT%IRNK	RPT3	113
	1,2<	RPT3	114
	WRITE%IO,218<%VC1%I,3<,I#1,2<,VC%IRNK,7,3<,VC%IRNK,10,3<,AVCT%IRNK	RPT3	115
	1,3<	RPT3	116
	WRITE%IO,219<%VC1%I,4<,I#1,2<,VC%IRNK,7,4<,VC%IRNK,10,4<,AVCT%IRNK	RPT3	117
	1,4<	RPT3	118
	WRITE%IO,220<%VC1%I,5<,I#1,2<,AVCT%IRNK,5<	RPT3	119
	WRITE%IO,221<%VC1%I,6<,I#1,2<,AVCT%IRNK,6<	RPT3	120
	WRITE%IO,222<%VC1%I,7<,I#1,2<,VC%IRNK,7,6<,VC%IRNK,10,6<,AVCT%IRNK	RPT3	121
	1,7<	RPT3	122
	WRITE%IO,228<TCOMBI%IRNK<,%VC1%I,8<,I#1,2<,VC%IRNK,7,7<,VC%IRNK,	RPT3	123
	1 10,7<,AVCT%IRNK,8<	RPT3	124
	WRITE%IO,223<%VC1%I,9<,I#1,2<,VC%IRNK,7,8<,VC%IRNK,10,8<,AVCT%IRNK	RPT3	125
	1,9<	RPT3	126
C	RETURN TO ALLOCATED COSTS	RPT3	127
	RATC%1<#TSALES%1<&SOL%IRNK,13<-VC1%1,9<	RPT3	128
	RATC%2<#TSALES%2<&SOL%IRNK,14<-VC1%2,9<	RPT3	129
	RATC%3<#SOL%IRNK,7<&SOL%IRNK,15<-VC%IRNK,7,8<	RPT3	130
	RATC%4<#SOL%IRNK,10<-VC%IRNK,10,8<	RPT3	131
	RATC%5<#0.	RPT3	132
	DO 109 I#12,14	RPT3	133
	RATC%5<#RATC%5<&SOL%IRNK,I<	RPT3	134
109	CONTINUE	RPT3	135
	RATC%5<#RATC%5<&GSALES-AVCT%IRNK,9<	RPT3	136
	WRITE%IO,224<%RATC%I<,I#1,5<	RPT3	137
C	UNAL	RPT3	138
	LOCATED VARIABLE COSTS	RPT3	139
	WRITE%IO,225<	RPT3	140
	WRITE%IO,226<BCSOL%IRNK,3,1<,R%31<,UVCT%IRNK,1<	RPT3	141
	HLAB%0.	RPT3	142
	DO 110 I#4,16	RPT3	143
	HLAB#HLAB&BCSOL%IRNK,I,1<	RPT3	144
110	CONTINUE	RPT3	145
	WRITE%IO,227< UVCT%IRNK,2<	RPT3	146
	T#RATC%5<-UVCT%IRNK,3<	RPT3	147
	WRITE%IO,229< T	RPT3	148
C	FIXED COSTS		

150X,8%1H=<,8X,8%1H=<,8X,8%1H=<,8X,8%1H=<,8X,8%1H=<<	RPT3	29
225 FORMAT%35H0 C LESS-UNALLOCATED VARIABLE COSTS<	RPT3	30
226 FORMAT%7X,22H1. ADDED LAND RENTAL (,F6.1,6H A.X \$,F6.2,1H),75X,	RPT3	31
1F7.0<	RPT3	32
227 FORMAT%7X,22. PART-TIME HIRED LABOR,92X,F7.0/122X,8%1H=<<	RPT3	33
228 FORMAT%7X,30H8. CUSTOM COMBINING HIRED IN (,F5.0,6H HRS.),F18.0,	RPT3	34
1 4F16.0<	RPT3	35
229 FORMAT%7X,43H3. GROSS PROFIT(RETurnS TO FIXED RESOURCES),73X,F7.0	RPT3	36
1/,122X,8%1H=<<	RPT3	37
230 FORMAT%22H0 D LESS - FIXED COSTS<	RPT3	38
231 FORMAT%7X,24H1. FIXED MACHINERY COSTS,92X,F7.0<	RPT3	39
232 FORMAT%7X,20H2. FIXED LABOR COSTS,96X,F7.0<	RPT3	40
233 FORMAT%7X,21H3. FIXED LAND COSTS (,F4.0,6H A.X \$,F6.2,2H +/10X,	RPT3	41
1F5.0,6H A.X \$,F6.2,1H),95X,F7.0/122X,8%1H=<<	RPT3	42
234 FORMAT%7X,20H4. TOTAL FIXED COSTS,96X,F7.0/,122X,8%1H=<<	RPT3	43
235 FORMAT%53H E NET PROFIT (RETURN S TO MGMT. BEFORE INCOME TAXES),	RPT3	44
*70X,F7.0/122X,8%1H=<<	RPT3	45
236 FORMAT%2X,2* INCLUDES DOUBLE CROP SOYBEANS2<	RPT3	46
DO 301 I#1,2	RPT3	47
TSALES%I<#0.	RPT3	48
DO 301 J#1,9	RPT3	49
301 VC1%I,J<#0.	RPT3	50
GSales#0.	RPT3	51
DO 100 I#1,3	RPT3	52
TSales%1<#TSales%1<&Sol%IRNK,I<	RPT3	53
TSales%2<#TSales%2<&Sol%IRNK,I&3<	RPT3	54
100 CONTINUE	RPT3	55
DO 101 I#8,9	RPT3	56
TSales%2<#TSales%2<&Sol%IRNK,I<	RPT3	57
101 CONTINUE	RPT3	58
TSales%2<#TSales%2<&Sol%IRNK,11<	RPT3	59
GSales#TSales%1<&TSales%2<&Sol%IRNK,7<&Sol%IRNK,10<	RPT3	60
DO 102 I#1,4	RPT3	61
DO 103 J#1,3	RPT3	62
VC1%1,I<#VC1%1,I<&VC%IRNK,J,I<	RPT3	63
VC1%2,I<#VC1%2,I<&VC%IRNK,J&3,I<	RPT3	64
103 CONTINUE	RPT3	65
102 CONTINUE	RPT3	66
DO 104 I#1,4	RPT3	67
DO 105 J#8,9	RPT3	68
VC1%2,I<#VC1%2,I<&VC%IRNK,J,I<	RPT3	69
105 CONTINUE	RPT3	70
VC1%2,I<#VC1%2,I<&VC%IRNK,11,I<	RPT3	71
104 CONTINUE	RPT3	72
VC1%1,5<#VC%IRNK,2,5<&VC%IRNK,3,5<	RPT3	73
VC1%2,5<#VC%IRNK,5,5<&VC%IRNK,6,5<&VC%IRNK,9,5<	RPT3	74
1&VC%IRNK,11,5<	RPT3	75
VC1%1,6<#VC%IRNK,1,5<	RPT3	76
VC1%2,6<#VC%IRNK,4,5<&VC%IRNK,8,5<	RPT3	77
DO 1040 J#1,3	RPT3	78
VC1%1,7<#VC1%1,7<&VC%IRNK,J,6<	RPT3	79
VC1%2,7<#VC1%2,7<&VC%IRNK,J&3,6<	RPT3	80
1040 CONTINUE	RPT3	81
DO 106 J#8,9	RPT3	82
VC1%2,7<#VC1%2,7<&VC%IRNK,J,6<	RPT3	83
106 CONTINUE	RPT3	84
VC1%2,7<#VC1%2,7<&VC%IRNK,11,6<	RPT3	85
DO 1050 I#1,3	RPT3	86
VC1%1,8<#VC1%1,8<&VC%IRNK,I,7<	RPT3	87
VC1%2,8<#VC1%2,8<&VC%IRNK,I&3,7<	RPT3	88

WRITE%IO,203< %PRICE%I<,I#1,7<,PRICE%10<	RPT4	40
TEM1#SOL%IRNK,4<ESOL%IRNK,8<	RPT4	41
TEM2#SOL%IRNK,5<ESOL%IRNK,9<	RPT4	42
TEM3#SOL%IRNK,6<ESOL%IRNK,11<	RPT4	43
WRITE%IO,204<%SOL%IRNK,I<,I#1,3<,TEM1,TEM2,TEM3,SOL%IRNK,7<, 1SOL%IRNK,10<	RPT4	44
WRITE%IO,205< %AVY%IRNK,I<,I#1,8<	RPT4	45
WRITE%IO,206< AMOI%IRNK,1<,AMOJ%IRNK,1<,AMOJ%IRNK,2<,AMOJ%IRNK,2<	RPT4	46
WRITE%IO,207< %AVS%IRNK,I<,I#1,8<	RPT4	47
WRITE%IO,208< %AVC%IRNK,I<,I#1,8<	RPT4	48
WRITE%IO,209< %AVRT%IRNK,I<,I#1,8<	RPT4	49
WRITE%IO,210<	RPT4	50
RETURN	RPT4	51
END	RPT4	52
SUBROUTINE RPT56	RPT4	53
REAL*8 IDENT	RPT56	1
COMMON/INT1/R%600<,RSOL%116,2<,RCOL%186,2<,BCSOL%2,46,2<,HEAD%10<, 1ACHR%3<,ACRES%2,11<,PROD%2,11<,PRICE%11<,SOL%2,16<,VC%2,12,9<, 2AVCT%2,9<,UVCT%2,3<,FCT%2,4<,TCSTS%2<,PROFT%2<,AVC%2,8<,AVY%2,8<, 3AVS%2,8<,AVRT%2,8<,AMOJ%2,2<,COMBH%2,3<,TACR%2,3<,TCOMB%2<,RHS%41< 4.AWOR%12,18<,RWORK%12,18<,CLPRP,SLPRP,ILPRP,DCPRP,CCLAB,CCLAB, 5WCLAB,IPAGE,IOUT,INPT,IRNK,CTA%2,3,3<,BTA%2,3,3<,TCOMBI%2<,IO 6,RSHAD%83,2<,NMAX,IDENT,CHLAB,SHLAB,WHLAB,SICLAB 7.AWRK%6,18<,BWRK%6,18<,SWRK%6,12<	CHNG	10
COMMON /INT2/TACRE%3,6,4<,TPROD%2,6,4<,STACR%2,4<,STPRD%2,4<, 1APRP%3,15<,PPLNT%10<,DD%41<,DDD%41<,SHAD%41<,TAB%16,8<,TABB%16,6< 2,SPLNT%6<,WHAR,SHAR%2<,DCHAR 3,TAB3%16,9<	JEF18	1
DIMENSION AVYLD%4<	COMDI	2
198 FORMAT%1H0<	COMDI	3
199 FORMAT%1H1,88X,27H0.S.U. CROPPING BUDGET PAGE,I4<	COMDI	4
201 FORMAT%77H0 TABLE 5. PROJECTED CORN PRODUCTION BY DATE OF PLANTING 1G AND HARVESTING DATE<	COMDI	5
250 FORMAT %80H0 TABLE 6. PROJECTED SOYBEAN PRODUCTION BY DATE OF PLANTING INTING AND HARVESTING DATE<	COMDI	6
202 FORMAT%1H0,51X,17HHARVESTING PERIOD,39X,9HTOTAL BU.<	JEF27	1
203 FORMAT%90X,11HTOTAL ACRES,7X,9HFROM THIS<	JEF34	1
204 FORMAT %34X,13HSEP.27-OCT.17,7X,12HOCT.18-NOV.7,8X,12HNOV.8-NOV.28 1,6X,7HPLANTED,6X,15HPLANTING PERIOD<	COMMN	1
251 FORMAT%34X,13HSEP.13-SEP.26,7X,13HSEP.27-OCT.17,7X,12HOCT.18-NOV.7 16X,7HPLANTED,6X,15HPLANTING PERIOD<	COMMN	2
205 FORMAT %4X,15HPLANTING PERIOD,11X,58HACRES PRODUCTION ACRES 1RODUCTION ACRES PRODUCTION<	JEF8	1
206 FORMAT %18H0 A.APR.26-MAY 2,F18.1,F10.0,F10.1,F10.0,F10.1,F10.0, 1F12.2,F17.0<	JEF34	1
207 FORMAT%18H B.MAY 3-MAY 9,F18.1,F10.0,F10.1,F10.0,F10.1,F10.0, 1F12.2,F17.0<	RPT56	4
208 FORMAT %18H C.MAY 10-MAY 16,F18.1,F10.0,F10.1,F10.0,F10.1,F10.0, 1F12.2,F17.0<	RPT56	5
209 FORMAT %18H D.MAY 17-MAY 23,F18.1,F10.0,F10.1,F10.0,F10.1,F10.0, 1F12.2,F17.0<	RPT56	6
210 FORMAT %18H E.MAY 24-MAY 30,F18.1,F10.0,F10.1,F10.0,F10.1,F10.0, 1F12.2,F17.0<	RPT56	8
211 FORMAT%18H F.MAY 31-JUNE 6,F18.1,F10.0,F10.1,F10.0,F10.1,F10.0, 1F12.2,F17.0<	RPT56	9
212 FORMAT%29X,7%1H-,<2%2X,10H-----,1X,7H-----,<2X,10%1H-,<2X, 111%1H-,<4X,15%1H-,<<	RPT56	10
213 FORMAT%28H G.TOTAL ACRES AND BUSHEL,S,F8.1,F10.0,F10.1,F10.0, 1F10.1,F10.0,F12.1,F17.0<	RPT56	11
214 FORMAT %22H H.AV.YIELD PER ACRE,F24.0,2F20.0,F29.0<	RPT56	12
	RPT56	13
	RPT56	14
	RPT56	15
	RPT56	16
	RPT56	17
	RPT56	18
	RPT56	19
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	RPT56	30
	RPT56	31
	RPT56	32
	RPT56	33
	RPT56	34
	RPT56	35
	RPT56	36

WRITE%IO,230<	RPT3 149
WRITE%IO,231< FCT%IRNK,1<	RPT3 150
WRITE%IO,232< FCT%IRNK,2<	RPT3 151
WRITE%IO,233< R%28<,R%29<,R%561<,R%562<,FCT%IRNK,3<	RPT3 152
WRITE%IO,234<FCT%IRNK,4<	RPT3 153
WRITE%IO,235<PROFT%IRNK<	RPT3 154
WRITE%IO,209<	RPT3 155
WRITE%IO,236<	RPT3 156
RETURN	RPT3 157
END	RPT3 158
SUBROUTINE RPT4	RPT4 1
REAL*8 IDENT	CHNG 10
COMMON/INT1/R%600<,RSOL%116,2<,RCOL%186,2<,BCSOL%2,46,2<,HEAD%10<,	JEF18 1
1ACHR%3<,ACRES%2,11<,PROD%2,11<,PRICE%11<,SOL%2,16<,VC%2,12,9<,	COMDI 2
2AVCT%2,9<,UVCT%2,3<,FCT%2,4<,TCSTS%2<,PROFT%2<,AVC%2,8<,AVY%2,8<,	COMDI 3
3AVS%2,8<,AVRT%2,8<,AMO%2,2<,COMBH%2,3<,TACR%2,3<,TCOMB%2<,RHS%41<	COMDI 4
4,AWRK%12,18<,BWRK%12,18<,CLPRP,SLPRP,WLPRP,DCPRP,CCLAB,SCLAB,	COMDI 5
5WCLAB,IPAGE,IDUT,INPT,IRNK,CTA%2,3,3<,BTA%2,3,3<,TCOMBI%2<,IO	COMDI 6
6,RSHAD%83,2<,NMAX,IDENT,CHLAB,SHLAB,WHLAB,SICLAB	JEF27 1
7,AWRK%6,18<,BWRK%6,18<,SWRK%6,12<	JEF34 1
COMMON/INT2/TACR%3,6,4<,TPROD%2,6,4<,STACR%2,4<,STPRD%2,4<,	COMM 1
1APRP%3,15<,PPLNT%10<,DD%41<,DDD%41<,SHAD%41<,TAB%16,8<,TABB%16,6<	COMM 2
2,SPLNT%6<,WHAR,SHAR%2<,DCHAR	JEF8 1
3,TAB3%16,9<	JEF34 1
200 FORMAT%1H1,89X,27H0.S.U. CROPPING BUDGET PAGE,I4/@0 TABLE 4. PROJ	RPT4 4
1ECT SUMMARY OF LAND USE,YIELDS AND INCOME FROM CORN,SOYBEANS,WHEAT	RPT4 5
2 AND SILAGE FOR THE OPTIMUM PLAN@/a0a,52X,@CORN CORN CORN	RPT4 6
3 SOYBEANS SOYBEANS SOYBEANS WHEAT SILAGE@/54X,@WET DRY	RPT4 7
4 STORED WET DRY STORED@<	RPT4 8
201 FORMAT%26H0 A. TOTAL ACREAGE(ACRES),24X,F6.0,3F9.0,2F10.0	RPT4 9
1,F8.0,F9.0,F10.0<	RPT4 10
202 FORMAT%47H0 B. TOTAL PRODUCTION (BUSHEL,SILAGE IN TONS),3F9.0,F9	RPT4 11
1.0,F10.0,F10.0,F8.0,F9.0,F10.0<	RPT4 12
203 FORMAT%49H0 C. SELLING PRICE (NET OF TRUCK CHARGES) (\$/BU),F7.2,2	RPT4 13
1F9.2,F9.2,F10.2,F10.2,F8.2,F9.2,F10.2<	RPT4 14
204 FORMAT%21H0 D. TOTAL SALES (\$),28X,F7.0,2F9.0,F9.0,F10.0,F10.0,F8	RPT4 15
1.0,F9.0,F10.0<	RPT4 16
205 FORMAT%49H0 E. AVERAGE YIELD (BU/ACRE,SILAGE IN TONS/ACRE),F7.1,2	RPT4 17
1F9.1,F9.1,F10.1,F10.1,F8.1,F9.1,F10.1<	RPT4 18
206 FORMAT%38H0 F. AVERAGE HARVEST MOISTURE PERCENT,18X,2F9.2,9X,	RPT4 19
1 2F10.2<	RPT4 20
207 FORMAT%37H0 G. AVERAGE SALES PER ACRE (\$/ACRE),12X,F7.1,2F9.1,F9.	RPT4 21
11,F10.1,F10.1,F8.1,F9.1,F10.1<	RPT4 22
208 FORMAT%46H0 H. AVERAGE VARIABLE COSTS PER ACRE (\$/ACRE),4X,F6.0,2	RPT4 23
1F9.0,F9.0,F10.0,F10.0,F8.0,F9.0,F10.0<	RPT4 24
210 FORMAT%1H0,2X,118%1H*<<	RPT4 25
209 FORMAT%50H0 I. AVE. RETURN TO UNALLOCATED VAR. COST(\$/ACRE),F6.0,	RPT4 26
12F9.0,F9.0,F10.0,F10.0,F8.0,F9.0,F10.0<	RPT4 27
IPAGE#IPAGE&1	RPT4 28
WRITE%IO,200< IPAGE	RPT4 29
TEM1#ACRES%IRNK,4<&ACRES%IRNK,8<	RPT4 30
TEM2#ACRES%IRNK,5<&ACRES%IRNK,9<	RPT4 31
TEM3#ACRES%IRNK,6<&ACRES%IRNK,11<	RPT4 32
WRITE%IO,201<%ACRES%IRNK,I<,I#1,3<,TEM1,TEM2,TEM3,ACRES%IRNK,7<	RPT4 33
1,ACRES%IRNK,10<	RPT4 34
TEM1#PROD%IRNK,4<&PROD%IRNK,8<	RPT4 35
TEM2#PROD%IRNK,5<&PROD%IRNK,9<	RPT4 36
TEM3#PROD%IRNK,6<&PROD%IRNK,11<	RPT4 37
WRITE%IO,202<%PROD%IRNK,I<,I#1,3<,TEM1,TEM2,TEM3,PROD%IRNK,7<,	RPT4 38
1PROD%IRNK,10<	RPT4 39

70	DIMENSION TAB7%10<	RPT7	4
	FORMAT%00 TABLE 7. PROJECTED WHEAT AND DOUBLE CROP SOYBEAN PRODUCTION BY DATE OF PLANTING AND HARVESTING DATE<	RPT7	5
71	FORMAT%1H0,/,1H0,/,29X,@HARVESTING PERIOD@<	RPT7	6
73	FORMAT%1H0,3X,5X,@WHEAT@,16X,@JUNE 14 - JULY 18@<	RPT7	7
75	FORMAT%1H,3X,@PLANTING PERIOD@,11X,@ACRES PRODUCTION@<	RPT7	8
77	FORMAT%1H0,2X,@A.SEP.27-OCT.17@,8X,F10.1,F10.0<	RPT7	9
79	FORMAT%3X,@B.OCT.18-NOV.7@,8X,F10.1,F10.0<	RPT7	10
81	FORMAT%29X,7%1H-<,2X,10%1H-<<	RPT7	11
83	FORMAT%3X,@C.TOTAL ACRES AND BUSHEL@,F8.1,F10.0<	RPT7	12
85	FORMAT%3X,@D.AVERAGE YIELD (BU/ACRE)@,F18.0<	RPT7	13
87	FORMAT%29X,7%1H=<,2X,10%1H=<<	RPT7	14
91	FORMAT%1H0,/1H0,3X,@DOUBLE CROP SOYBEANS@,6X,@OCT.18 - NOV.7@<	RPT7	15
93	FORMAT%00 E.JUNE14-JULY18@,F18.1,F10.0<	RPT7	16
95	FORMAT %3X,@F.AVERAGE YIELD (BU/ACRE)@,F18.0<	RPT7	17
198	FORMAT %1H0<	RPT7	18
199	FORMAT %1H1,88X,27H0.S.U. CROPPING BUDGET PAGE,I4<	RPT7	19
216	FORMAT %3X,117%1H*<<	RPT7	20
	DO 99 I#1,10	RPT7	21
99	TAB7%I<#0.	RPT7	22
	TAB7%1<#RCOL%110,IRNK<	RPT7	23
	TAB7%2<#RCOL%110,IRNK<*R%522<	RPT7	24
	TAB7%3<#RCOL%111,IRNK<	RPT7	25
	TAB7%4<#RCOL%111,IRNK<*R%523<	RPT7	26
	TAB7%5<#TAB7%1<#TAB7%3<	RPT7	27
	TAB7%6<#TAB7%2<#TAB7%4<	RPT7	28
	IF%TAB7%5<.GT.0.< TAB7%7<#TAB7%6</TAB7%5<	RPT7	29
	TAB7%8<#RCOL%126,IRNK<#RCOL%127,IRNK<	RPT7	30
	TAB7%9<#TAB7%8<*R%535<	RPT7	31
	IF%TAB7%8<.GT.0.< TAB7%10<#TAB7%9</TAB7%8<	RPT7	32
	IF %TAB7%5<#TAB7%8<<.EQ.0.< RETURN	RPT7	33
	WRITE%IO,198<	RPT7	34
	IPAGE#IPAGE&1	RPT7	35
	WRITE%IO,199< IPAGE	RPT7	36
	WRITE%IO,70<	RPT7	37
	WRITE%IO,71<	RPT7	38
	WRITE%IO,73<	RPT7	39
	WRITE%IO,75<	RPT7	40
	WRITE%IO,77< %TAB7%I<,I#1,2<	RPT7	41
	WRITE%IO,79< %TAB7%I<,I#3,4<	RPT7	42
	WRITE%IO,81<	RPT7	43
	WRITE%IO,83< %TAB7%I<,I#5,6<	RPT7	44
	WRITE%IO,85< TAB7%7<	RPT7	45
	WRITE%IO,87<	RPT7	46
	WRITE%IO,71<	RPT7	47
	WRITE%IO,91<	RPT7	48
	WRITE%IO,75<	RPT7	49
	WRITE%IO,93< %TAB7%I<,I#8,9<	RPT7	50
	WRITE%IO,81<	RPT7	51
	WRITE%IO,95< TAB7%10<	RPT7	52
	WRITE%IO,87<	RPT7	53
	WRITE%IO,216<	RPT7	54
	RETURN	RPT7	55
	END	RPT7	56
	SUBROUTINE RPT8	RPT7	57
	REAL*8 IDENT	RPT8	1
	COMMON/INT1/R%600<,RSOL%116,2<,RCOL%186,2<,BCSOL%2,46,2<,HEAD%10<,JEFF18	CHNG	10
	1ACHR%3<,ACRES%2,11<,PROD%2,11<,PRICE%11<,SOL%2,16<,VC%2,12,9<, COMDI		2
	2AVCT%2,9<,UVCT%2,3<,FCT%2,4<,TCSTS%2<,PROFT%2<,AVC%2,8<,AVY%2,8<, COMDI		3
	3AVS%2,8<,AVRT%2,8<,AMO1%2,2<,COMBH%2,3<,TACR%2,3<,TCOMB%2<,RHS%41<COMDI		4

215	FORMAT%29X,7%1H=<,2%2X,10H=====,1%7H=====,<,2X,10%1H=<,2X,	RPT56	37
	11%1H=<,4X,15%1H=<<	RPT56	38
216	FORMAT %3X,11%1H=<<	RPT56	39
217	FORMAT%1H0/59H0 PLEASE NOTE--AN * INDICATES THE AMOUNT WAS LESS	TRPT56	40
	1HAN ONE/1H0/1H0<	RPT56	41
	IF %TACR%IRNK,1<&TACR%IRNK,2<<.EQ.0.< GO TO 297	RPT56	43
	IPAGE#IPAGE&1	RPT56	44
	WRITE%IO,199< IPAGE	RPT56	45
	DO 296 LOOP#1,2	RPT56	46
	IF %TACR%IRNK,LOOP<.EQ.0.<GO TO 296	RPT56	47
	DO 306 I#1,4	RPT56	48
	AVYLD%I<#0.	RPT56	49
	IF %STACR%LOOP,I<.LE.0.< GO TO 306	RPT56	50
	AVYLD%I<#STPRD%LOOP,I</STACR%LOOP,I<	RPT56	51
306	CONTINUE	RPT56	52
	GO TO %307,308<,LOOP	RPT56	53
307	WRITE%IO,201<	RPT56	54
	WRITE %IO,202<	RPT56	55
	WRITE %IO,203<	RPT56	56
	WRITE %IO,204<	RPT56	57
	WRITE %IO,205<	RPT56	58
	GO TO 309	RPT56	59
308	IF%TACR%IRNK,1<.LT.1.< GO TO 310	RPT56	60
	WRITE %IO,198<	RPT56	61
310	CONTINUE	RPT56	62
311	WRITE %IO,250<	RPT56	63
	WRITE %IO,202<	RPT56	64
	WRITE %IO,203<	RPT56	65
	WRITE %IO,251<	RPT56	66
	WRITE %IO,205<	RPT56	67
309	WRITE%IO,206<%TACRE%LOOP,1,I<,TPROD%LOOP,1,I<,I#1,4<	RPT56	68
	WRITE%IO,207<%TACRE%LOOP,2,I<,TPROD%LOOP,2,I<,I#1,4<	RPT56	69
	WRITE%IO,208<%TACRE%LOOP,3,I<,TPROD%LOOP,3,I<,I#1,4<	RPT56	70
	WRITE%IO,209<%TACRE%LOOP,4,I<,TPROD%LOOP,4,I<,I#1,4<	RPT56	71
	WRITE%IO,210<%TACRE%LOOP,5,I<,TPROD%LOOP,5,I<,I#1,4<	RPT56	72
	WRITE%IO,211<%TACRE%LOOP,6,I<,TPROD%LOOP,6,I<,I#1,4<	RPT56	73
	WRITE %IO,212<	RPT56	74
	WRITE%IO,213<%STACR%LOOP,I<,STPRD%LOOP,I<,I#1,4<	RPT56	75
	WRITE %IO,214< %AVYLD%I<,I#1,4<	RPT56	76
	WRITE %IO,215<	RPT56	77
	WRITE %IO,216<	RPT56	78
296	CONTINUE	RPT56	79
	IF %TACR%IRNK,1<&TACR%IRNK,2<<.LE.0.< GO TO 297	RPT56	80
	WRITE%IO,217<	RPT56	81
297	RETURN	RPT56	82
	END	RPT56	83
	SUBROUTINE RPT7	RPT7	1
	REAL*8 IDENT	CHNG	10
	COMMON/INT1/R%600<,RSOL%116,2<,RCOL%186,2<,BCSOL%2,46,2<,HEAD%10<,JEF18		1
	1ACHR%3<,ACRES%2,11<,PROD%2,11<,PRICE%11<,SOL%2,16<,VC%2,12,9<, COMDI		2
	2AVCT%2,9<,UVCT%2,3<,FCT%2,4<,TCSTS%2<,PROFT%2<,AVC%2,8<,AVY%2,8<, COMDI		3
	3AVS%2,8<,AVRT%2,8<,AMO1%2,2<,COMPH%2,3<,TACR%2,3<,TCOMB%2<,RHS%41<COMDI		4
	4,AWORK%12,18<,BWORK%12,18<,CLPRP,SLPRP,WLPRP,DCPRP,CCLAB,SCLAB, COMDI		5
	5WCLAB,IPAGE,IOUT,INPT,IRNK,CTA%2,3,3<,BTA%2,3,3<,TCOMBI%2<,IO COMDI		6
	6,RSHAD%83,2<,NMAX,IDENT,CHLAB,SHLAB,WHLAB,SICLAB JEF27		1
	7,AWRK%6,18<,BWRK%6,18<,SWRK%6,12< JEF34		1
	COMMON /INT2/TACRE%3,6,4<,TPROD%2,6,4<,STACR%2,4<,STPRD%2,4<, COMMN		1
	1APRP%3,15<,PPLNT%10<,DD%41<,DDD%41<,SHAD%41<,TAB%16,8<,TABB%16,6< COMMN		2
	2,SPLNT%6<,WHAR,SHAR%2<,DCHAR JEF8		1
	3,TAB3%16,9< JEF34		1

	3AVS%2,8<,AVRT%2,8<,AMO%2,2<,COMB%2,3<,TACR%2,3<,TCOMB%2<,RHS%41<COMDI	4
	4,AWORK%12,18<,BWORK%12,18<,CLPRP,SLPRP,WLPRP,DCPRP,CCLAB,SCLAB,	COMDI 5
	5WCLAB,IPAGE,IOUT,INPT,IRNK,CTA%2,3,3<,BTA%2,3,3<,TCOMBI%2<,IO	COMDI 6
	6,RSHAD%83,2<,NMAX,IDENT,CHLAB,SHLAB,WHLAB,SICLAB	JEF27 1
	7,AWRK%6,18<,BWRK%6,18<,SWRK%6,12<	JEF34 1
	COMMON /INT2/TACRE%3,6,4<,TPROD%2,6,4<,STACR%2,4<,STPRD%2,4<,	COMMN 1
	1APRP%3,15<,PPLNT%10<,DD%41<,DDD%41<,SHAD%41<,TAB%16,8<,TABB%16,6<	COMMN 2
	2,SPLNT%6<,WHAR,SHAR%2<,DCHAR	JEF8 1
	3,TAB%16,9<	JEF34 1
	REAL*8 NAM1,NAM2	CHNG 20
	EQUIVALENCE %NAM2%1,1<,NAM1%1<<	RPT9 12
	DIMENSION TOT1%6<,TOT2%4<,GTOT%14<,NAM1%30<,NAM2%15,2<	JEF8 1
	DATA NAM1 /8HA. MAR.1,8HB. APR. ,8HC. APR.2	RPT9 5
	1,8HD. MAY ,8HE. MAY 1,8HF. MAY 1,8HG. MAY 2	RPT9 6
	2,8HH. MAY 3,8HI. JUNE ,8HJ. JUNE1,8HK. SEP.1,	RPT9 7
	3,8HL. SEP.2,8HM. OCT.1,8HN. NOV. ,8HO. NOV.2,8H5-APR.4	RPT9 8
	1,8H5-APR.25,8H6-MAY 2,8H3-MAY 9,8H0-MAY 16,8H7-MAY 23,8H4-MAY 30	RPT9 9
	5,8H1-JUNE 6,8H7-JUNE13,8H4-JULY18,8H3-SEP.26,8H7-OCT.17,8H8-NOV. 7	RPT9 10
	6,8H8-NOV.28,8H9-MAR.14/	JEF28 1
199	FORMAT%1H1,68X,@D.S.U. CROPPING BUDGET PAGE@,14/1H0<	JEF8 2
200	FORMAT%3X,@TABLE 9. SCHEDULE OF MACHINE FIELD OPERATIONS (BASED ON	JEF8 3
	1 FIELD HOURS AVAILABLE SEE TABLE 10.13<	JEF8 4
201	FORMAT%1H0,23X,@ACRES PREPARED@,15X,@ACRES PLANTED@,11X,@POST@,	JEF8 5
	111X,@ACRES HARVESTED@<	JEF8 6
202	FORMAT%20X,@CORN AND@,51X,@PLANT@<	JEF8 7
203	FORMAT%5X,@TIME PERIOD SILAGE SOYBEANS TOTAL CORN SOYBEANS S	JEF8 8
	1ILAGE WHEAT TOTAL TOTAL CORN SOYBEANS SILAGE WHEAT TOTAL@<	JEF8 9
	DO 100 I#1,6	RPT9 21
	TOT1%I<#0.	RPT9 22
100	CONTINUE	RPT9 23
	DO 101 I#1,4	RPT9 24
	TOT2%I<#0.	RPT9 25
101	CONTINUE	RPT9 26
	DO 102 I#1,14	JEF8 10
	GTOT%I<#0.	RPT9 28
102	CONTINUE	RPT9 29
	DO 103 I#1,6	RPT9 30
	TOT1%I<#TOT1%I<&SPLNT%I<	JEF8 11
	DO 104 J#1,2	RPT9 31
	TOT1%I<#TOT1%I<&TACRE%J,I,4<	RPT9 32
104	CONTINUE	RPT9 33
103	CONTINUE	RPT9 34
	DO 105 I#2,4	RPT9 35
	TOT2%I<#TOT2%I<&STACR%1,I-1<	RPT9 36
105	CONTINUE	RPT9 37
	DO 106 I#1,3	RPT9 38
	TOT2%I<#TOT2%I<&STACR%2,I<	RPT9 39
106	CONTINUE	RPT9 40
	TOT2%3<#TOT2%3<&DCHAR	JEF8 12
	DO 1060 I#1,2	JEF8 13
1060	TOT2%I<#TOT2%I<&SHAR%I<	JEF8 14
	DO 107 I#1,3	RPT9 41
	DO 108 J#1,15	RPT9 42
	GTOT%I<#GTOT%I<&APRP%I,J<	RPT9 43
108	CONTINUE	RPT9 44
107	CONTINUE	RPT9 45
	DO 109 I#4,5	RPT9 46
	J#I-3	RPT9 47
	DO 110 K#1,6	RPT9 48
	GTOT%I<#GTOT%I<&TACRE%J,K,4<	RPT9 49

4,AWRK%12,18<,BWRK%12,18<,CLPRP,SLPRP,PRP,DCPRP,CCLAB,SCLAB,	COMDI	5
5WCLAB,IPAGE,IOUT,INPT,IRNK,CTA%2,3,3<,B%2,3,3<,TCOMBI%2<,IO	COMDI	6
6,RSHAD%83,2<,NMAX,IDENT,CHLAB,SHLAB,WHLAB,SICLAB	JEF27	1
7,AWRK%6,18<,BWRK%6,18<,SWRK%6,12<	JEF34	1
COMMON /INT2/TACRE%3,6,4<,TPROD%2,6,4<,STACR%2,4<,STPRD%2,4<,	COMMN	1
1APRP%3,15<,PPLNT%10<,DD%41<,DDD%41<,SHAD%41<,TAB%16,8<,TABB%16,6<	COMMN	2
2,SPLNT%6<,WHAR,SHAR%2<,DCHAR	JEF8	1
3,TAB3%16,9<	JEF34	1
801 FORMAT%1H1,65X,@O.S.U. CROPPING BUDGET PAGE@,I4<	RPT8	4
800 FJRMAT%@O TABLE 8. PROJECTED SILAGE PRODUCTION BY DATE OF PLANTI	RPT8	5
*NG AND HARVESTING DATE@<	RPT8	6
802 FORMAT%1H@,41X,@HARVESTING PERIOD@,24X,@TOTAL TONNAGE@<	RPT8	7
804 FORMAT%68X,@TOTAL ACRES@,6X,@FROM THIS@<	RPT8	8
806 FORMAT%34X,@SEP.13-SEP.26@,7X,@SEP.27-OCT.17@,3X,@PLANTED@,5X,@PLA	RPT8	9
NTING PERIOD@<	RPT8	10
808 FORMAT%4X,@PLANTING PERIOD@,18X,@ACRES@,12X,@ACRES@<	RPT8	11
810 FORMAT%@O A.APR.26-MAY 2@,14X,F10.1,7X,F10.1,6X,F10.1,F14.1<	RPT8	12
812 FORMAT%@ B.MAY 3-MAY 9@,14X,F10.1,7X,F10.1,6X,F10.1,F14.1<	RPT8	13
814 FORMAT%@ C.MAY 10-MAY16@,14X,F10.1,7X,F10.1,6X,F10.1,F14.1<	RPT8	14
816 FORMAT%@ D.MAY 17-MAY23@,14X,F10.1,7X,F10.1,6X,F10.1,F14.1<	RPT8	15
818 FORMAT%@ E.MAY 24-MAY30@,14X,F10.1,7X,F10.1,6X,F10.1,F14.1<	RPT8	16
820 FORMAT%@ F.MAY 31-JUNE6@,14X,F10.1,7X,F10.1,6X,F10.1,F14.1<	RPT8	17
822 FORMAT%@ G.TOTAL ACRES AND TONNAGE@,36X,F10.1,F14.1<	RPT8	18
824 FJRMAT%@ H.AVERAGE YIELD (TONS/ACRE)@,44X,F14.1<	RPT8	19
826 FORMAT%33X,8%1H-<,9X,8%1H-<,8X,8%1H-<,6X,8%1H-<<	RPT8	20
828 FORMAT%33X,8%1H=<,9X,8%1H=<,8X,8%1H=<,6X,8%1H=<<	RPT8	21
IPAGE#IPAGE&1	RPT8	22
ASP#O.	RPT8	23
STON#O.	RPT8	24
DO 100 I#1,6	RPT8	25
ASP#ASP&TACRE%3,I,3<	RPT8	26
STON#STON&TACRE%3,I,4<	RPT8	27
100 CONTINUE	RPT8	28
IF%ASP.EQ.O.<RETURN	RPT8	29
SYLD#STON/ASP	RPT8	30
WRITE%IO,801< IPAGE	RPT8	31
WRITE%IO,800<	RPT8	32
WRITE%IO,802<	RPT8	33
WRITE%IO,804<	RPT8	34
WRITE%IO,806<	RPT8	35
WRITE%IO,808<	RPT8	36
WRITE%IO,810<%TACRE%3,1,J<,J#1,4<	RPT8	37
WRITE%IO,812<%TACRE%3,2,J<,J#1,4<	RPT8	38
WRITE%IO,814<%TACRE%3,3,J<,J#1,4<	RPT8	39
WRITE%IO,816<%TACRE%3,4,J<,J#1,4<	RPT8	40
WRITE%IO,818<%TACRE%3,5,J<,J#1,4<	RPT8	41
WRITE%IO,820<%TACRE%3,6,J<,J#1,4<	RPT8	42
WRITE%IO,826<	RPT8	43
WRITE%IO,822<ASP,STON	RPT8	44
WRITE%IO,824<SYLD	RPT8	45
WRITE%IO,828<	RPT8	46
WRITE %IO,216<	RPT8	47
216 FORMAT%3X,126%1H#<<	RPT8	48
RETURN	RPT8	49
END	RPT8	50
SUBROUTINE RPT9	RPT9	1
REAL#8 IDENT	CHNG	10
COMMON/INT1/R%600<,RSOL%116,2<,RCOL%186,2<,BCSOL%2,46,2<,HEAD%10<,	JEF18	1
1ACHR%3<,ACRES%2,11<,PROD%2,11<,PRICE%11<,SOL%2,16<,VC%2,12,9<,	COMDI	2
2AVCT%2,9<,UVCT%2,3<,FCT%2,4<,TCSTS%2<,PROFT%2<,AVC%2,8<,AVY%2,8<.	COMDI	3

208	1RCOL%110,IRNK<,STACR%1,K<,STACR%2,L<,SHAR%2<,TOT2%L< FORMAT%3X,2A8,F7.0,F9.0,F8.0,F28.0,F6.0,F13.0,F7.0,F8.0,F13.0< GO TO 114	JEF8 45 JEF8 46 RPT9 95
1191	K#I-11 L#I-10 TEM5#STACR%2,L<&DCHAR WRITE%IO,215<%NAM2%I,J<,J#1,2<,%APRP%J,I<,J#1,3<,RCOL%111,IRNK<, 1RCOL%111,IRNK<,STACR%1,K<,TEM5,TOT2%L<	JEF8 47 JEF8 48 JEF8 49 JEF8 50 JEF8 51
215	FORMAT%3X,2A8,F7.0,F9.0,F8.0,F28.0,F6.0,F13.0,F7.0,F21.0< GO TO 114	JEF8 52 JEF8 53
1190	WRITE%IO,213<%NAM2%I,J<,J#1,2<,%APRP%J,I<,J#1,3<,STACR%1,3<, 1TOT2%4<	RPT9 96 RPT9 97
213	FORMAT%3X,2A8,F7.0,F9.0,F8.0,F47.0,F28.0< GO TO 114	JEF8 54 RPT9 99
120	WRITE %IO,205<%NAM2%I,J<,J#1,2<,%APRP%J,I<,J#1,3<	RPT9 100
114	CONTINUE	RPT9 101
211	FORMAT%22X,4%1H-<,5X,4%1H-<,4X,4%1H-<,2X,4%1H-<,3X,4%1H-<,4X, 14%1H-<,3X,4%1H-<,2X,4%1H-<,3X,4%1H-<,2X,4%1H-<,3X,4%1H-<,4X,4%1H-< 2,3X,4%1H-<,2X,4%1H-<< WRITE%IO,211<	JEF8 55 JEF8 56 JEF8 57 RPT9 104
210	WRITE%IO,210<%GTOT%I<,I#1,14< FORMAT%13X,@TOTALS@,F7.0 ,F9.0,F8.0,F6.0,F7.0,F8.0,F7.0,F6.0,F7.0,F6.0,F7.0, 1F6.0,F7.0,F8.0,F7.0,F6.0/22X,4%1H=<,5X,4%1H=<,4X,4%1H=<,2X,4%1H=<, 13X,4%1H=<,4X,4%1H=<,3X,4%1H=<, 2X,4%1H=<,3X,4%1H=<,2X, 14%1H=<,3X,4%1H=<,4X,4%1H=<,3X,4%1H=<,2X,4%1H=<< FORMAT%1H0,2X,118%1H#<< WRITE%IO,212< RETURN	JEF8 58 JEF8 59 JEF8 60 JEF8 61 JEF8 62 JEF8 63 RPT9 110 RPT9 111
	END SUBROUTINE RPT10 REAL*8 IDENT COMMON/INT1/R%600<,RSQL%116,2<,RCOL%186,2<,BCSQL%2,46,2<,HEAD%10<, 1ACHR%3<,ACRES%2,11<,PROD%2,11<,PRICE%11<,SOL%2,16<,VC%2,12,9<, 2AVCT%2,9<,UVCT%2,3<,FCT%2,4<,TCSTS%2<,PROFT%2<,AVC%2,8<,AVY%2,8<, 3AVS%2,8<,AVRT%2,8<,AMOI%2,2<,COMBH%2,3<,TACR%2,3<,TCOMB%2<,RHS%41< 4,AWRK%12,18<,BWRK%12,18<,CLPRP,SLPRP,WLPRP,DCPRP,CCLAB,SCLAB, 5WCLAB,IPAGE,IOUT,INPT,IRNK,CTA%2,3,3<,BTA%2,3,3<,TCOMBI%2<,IO 6,RSHAD%83,2<,NMAX,IDENT,CHLAB,SHLAB,WHLAB,SICLAB 7,AWRK%6,18<,BWRK%6,18<,SWRK%6,12< COMMON /INT2/IACRE%3,6,4<,TPROD%2,6,4<,STACR%2,4<,STPRD%2,4<, 1APRP%3,15<,PPLNT%10<,DD%41<,DDD%41<,SHAD%41<,TAB%16,8<,TABB%16,6< 2,SPLNT%6<,WHAR,SHAR%2<,DCHAR 3,TAB3%16,9< COMMON/IT3/DWHT%6< REAL*8 NAM1,NAM2,NAM3,NAM4 EQUIVALENCE %NAM2%1,1<,%NAM1%1<,<,%NAM4%1,1<,%NAM3%1<,< DIMENSION TOT%5<,%NAM1%30<,%NAM2%15,2<,%NAM3%8<,%NAM4%4,2< DATA NAM1 /8HA. MAR.1,8HB. APR. .8HC. APR.2 1,8HD. MAY .8HE. MAY 1,8HF. MAY 1,8HG. MAY 2 2,8HH. MAY 3,8HI. JUNE .8HJ. JUNE1,8HK. SEP.1, 3 8HL. SEP.2,8HM. OCT.1,8HN. NOV. .8HO. NOV.2,8H5-APR.4 1,8H5-APR.25,8H6-MAY 2,8H3-MAY 9,8H0-MAY 16,8H7-MAY 23,8H4-MAY 30 5,8H1-JUNE 6,8H7-JUNE13,8H4-JULY18,8H3-SEP.26,8H7-OCT.17,8H8-NOV. 7 6,8H8-NOV.28,8H9-MAR.14/ DATA NAM3 /8HP. SEP.1,8HQ. SEP.2,8HR. OCT.1,8HS. NOV. 1,8H3-SEP.26,8H7-OCT.17,8H8-NOV. 7,8H8-NOV.28/ IPAGE#IPAGE&1 WRITE%IO,199< IPAGE	RPT9 112 RPT10 1 CHNG 10 JEF18 1 COMDI 2 COMDI 3 COMDI 4 COMDI 5 COMDI 6 JEF27 1 JEF34 1 COMMN 1 COMMN 2 JEF8 1 JEF34 1 RPT10 4 CHNG 20 RPT10 15 RPT10 5 RPT10 6 RPT10 7 RPT10 8 RPT10 9 RPT10 10 RPT10 11 JEF28 1 RPT10 13 RPT10 14 RPT10 16 RPT10 17
199	FORMAT%1H1,68X,@O.S.U. CROPPING BUDGET PAGE@,I4< WRITE%IO,200<	RPT10 18 RPT10 19

109	CONTINUE	RPT9	50
	CONTINUE	RPT9	51
	GTOT%5<#GTOT%5<&DCHAR	JEF8	15
	DO 111 I#1,6	RPT9	52
	GTOT%6<#GTOT%6<&SPLNT%I<	JEF8	16
111	CONTINUE	RPT9	54
	DO 130 I#110,111	JEF8	17
130	GTOT%7<#GTOT%7<&RCOL%I,IRNK<	JEF8	18
	DO 131 I#1,6	JEF8	19
131	GTOT%8<#GTOT%8<&TOT1%I<	JEF8	20
	GTOT%8<#GTOT%8<&DCHAR	JEF8	21
	DO 133 I#110,111	JEF8	22
133	GTOT%8<#GTOT%8<&RCOL%I,IRNK<	JEF8	23
	DO 112 I#1,10	RPT9	55
	GTOT%9<#GTOT%9<&PPLNT%I<	JEF8	24
112	CONTINUE	RPT9	57
	DO 113 I#10,11	JEF8	25
	DO 1140 J#1,3	RPT9	59
	GTOT%I<#GTOT%I<&STACR%I-9,J<	JEF8	26
1140	CONTINUE	RPT9	61
113	CONTINUE	RPT9	62
	GTOT%11<#GTOT%11<&DCHAR	JEF8	27
	DO 132 I#1,2	JEF8	28
132	GTOT%12<#GTOT%12<&SHAR%I<	JEF8	29
	GTOT%13<#WHAR	JEF8	30
	DO 1150 I#1,4	RPT9	63
	GTOT%14<#GTOT%14<&TOT2%I<	JEF8	31
1150	CONTINUE	RPT9	65
	GTOT%14<#GTOT%14<&WHAR	JEF8	32
	IPAGE#IPAGE&1	RPT9	66
	WRITE%IO,199< IPAGE	RPT9	67
	WRITE%IO,200<	RPT9	68
	WRITE%IO,201<	RPT9	69
	WRITE%IO,202<	RPT9	70
	WRITE%IO,203<	RPT9	71
205	FORMAT%3X,2A8,F7.0,F9.0,F8.0,F6.0,F7.0,F8.0,7X,F6.0,F7.0<	JEF8	33
	DO 114 I#1,15	RPT9	73
	GO TO %115,115,116,116,116,116,116,116,117,1170,118,119,1191,1190,	JEF8	34
	*120<,I	RPT9	75
115	WRITE %IO,205<%NAM2%I,J<,J#1,2<,%APRP%J,I<,J#1,3<	RPT9	76
	GO TO 114	RPT9	77
116	K#I-2	RPT9	78
	WRITE %IO,205<%NAM2%I,J<,J#1,2<,%APRP%J,I<,J#1,3<,%TACRE%J,K,4<,	RPT9	79
	1J#1,2<,SPLNT%K<,TOT1%K<,PPLNT%I<	JEF8	35
	GO TO 114	RPT9	81
117	WRITE %IO,206<%NAM2%I,J<,J#1,2<,%APRP%J,I<,J#1,3<,PPLNT%I<	RPT9	82
206	FORMAT%3X,2A8,F7.0,F9.0,F8.0,F41.0<	JEF8	36
	GO TO 114	RPT9	84
1170	WRITE%IO,214< %NAM2%I,J<,J#1,2<,%APRP%J,I<,J#1,3<,DCHAR,DCHAR,	JEF8	37
	1PPLNT%I<,WHAR,WHAR	JEF8	38
214	FORMAT%3X,2A8,F7.0,F9.0,F8.0,F13.0,F21.0,F7.0,F28.0,F6.0<	JEF8	39
	GO TO 114	JEF8	40
118	K#I-10	RPT9	85
	WRITE%IO,207<%NAM2%I,J<,J#1,2<,%APRP%J,I<,J#1,3<,STACR%2,K<,	JEF8	41
	1SHAR%1<,TOT2%K<	JEF8	42
207	FORMAT%3X,2A8,F7.0,F9.0,F8.0,F54.0,F8.0,F13.0<	JEF8	43
	GO TO 114	RPT9	89
119	K#I-11	RPT9	90
	L#I-10	RPT9	91
	WRITE%IO,208<%NAM2%I,J<,J#1,2<,%APRP%J,I<,J#1,3<,RCOL%110,IRNK<,	JEF8	44

	L#114&I	RPT10 78
	DD%I<#DD%I<&RCOL%L,IRNK<	UPDAT113
	WRITE%IO,254<%NAM4%J,K<,K#1,2<,RHS%I<,RCOL%L,IRNK<,DD%I<,DDD%I<,	RPT10 79
	1SHAD%I<	RPT10 80
	TOT%2<#TOT%2<&RCOL%L,IRNK<	RPT10 81
	TOT%4<#TOT%4<&RCOL%L,IRNK<	UPDAT114
254	FORMAT%3X,2A8,F11.0,F12.0,F23.0,F12.0,F17.2<	RPT10 82
117	CONTINUE	RPT10 83
118	IF %R%490<.EQ.0..AND.%TACR%IRNK,2<&TACR%IRNK,3<<.EQ.0.< GO TO 120	UPDAT115
	IF %R%491<.GT.0..AND.R%490<.EQ.0.< GO TO 120	UPDAT116
	WRITE%IO,255<	RPT10 85
	DO 119 I#30,32	RPT10 86
	J#I-29	RPT10 87
	L#104&I	RPT10 88
	M#107&I	RPT10 89
	DD%I<#DD%I<&RCOL%L,IRNK<	UPDAT117
	WRITE%IO,230<%NAM4%J,K<,K#1,2<,RHS%I<,RCOL%L,IRNK<,RCOL%M,IRNK<,	RPT10 90
	1DD%I<,DDD%I<,SHAD%I<	RPT10 91
	TOT%2<#TOT%2<&RCOL%L,IRNK<	RPT10 92
	TOT%3<#TOT%3<&RCOL%M,IRNK<	RPT10 93
	TOT%4<#TOT%4<&RCOL%L,IRNK<	UPDAT118
119	CONTINUE	RPT10 94
255	FORMAT%3X,@SOYBEANS--@/3X,@SOYBEAN ONLY COMBINE@<	RPT10 95
120	IF %R%489<.EQ.0..AND.TACR%IRNK,1<.EQ.0.< GO TO 122	JEF7 4
	IF %R%491<.GT.0..AND.R%489<.EQ.0.< GO TO 122	JEF32 2
	WRITE%IO,256<	RPT10 97
256	FORMAT%3X,@CORN--@/3X,@CORN ONLY COMBINE@<	RPT10 98
	DO 121 I#33,35	RPT10 99
	J#I-30	RPT10100
	L#95&I	RPT10101
	J#J-1	RPT10102
	M#98&I	RPT10103
	DD%I<#DD%I<&RCOL%L,IRNK<	UPDAT119
	WRITE%IO,230<%NAM4%J,K<,K#1,2<,RHS%I<,RCOL%L,IRNK<,RCOL%M,IRNK<,	RPT10104
	1DD%I<,DDD%I<,SHAD%I<	RPT10105
	TOT%2<#TOT%2<&RCOL%L,IRNK<	RPT10106
	TOT%3<#TOT%3<&RCOL%M,IRNK<	RPT10107
	TOT%4<#TOT%4<&RCOL%L,IRNK<	UPDAT120
121	CONTINUE	RPT10108
122	IF %R%491<.EQ.0.< GO TO 125	RPT10109
	WRITE%IO,257<	RPT10110
257	FORMAT%3X,@SOYBEANS--@/3X,@CORN-SOYBEAN COMBINE@<	RPT10111
	DO 123 I#36,38	RPT10112
	J#I-35	RPT10113
	L#136&J	UPDAT121
	L#L-3	RPT10116
	IF %R%490<< 1234,1234,1235	UPDAT122
1234	DD%I<#DD%I<&RCOL%L,IRNK<	UPDAT123
	WRITE%IO,230<%NAM4%J,K<,K#1,2<,RHS%I<,RCOL%L,IRNK<,RCOL%L&43,IRNK<	RPT10117
	1,DD%I<,DDD%I<,SHAD%I<	RPT10118
	TOT%2<#TOT%2<&RCOL%L,IRNK<	RPT10119
	TOT%3<#TOT%3<&RCOL%L&43,IRNK<	RPT10120
	TOT%4<#TOT%4<&RCOL%L,IRNK<	UPDAT124
	GO TO 123	RPT10121
1235	CONTINUE	RPT10122
	RC#0.	RPT10123
	WRITE%IO,230<%NAM4%J,K<,K#1,2<,RHS%I<,RC,RCOL%L&43,IRNK<,DD%I<,DDD	RPT10124
	1%I<,SHAD%I<	RPT10125
	TOT%3<#TOT%3<&RCOL%L&43,IRNK<	UPDAT125
123	CONTINUE	RPT10126

	00	FORMAT%00	TABLE 10.PROJECTED USE OF AVAILABLE MACHINE FIELD TIME	RPT10	20
		1FOR ALL CROPS@<		RPT10	21
		WRITE%IO,201<		RPT10	22
	201	FORMAT%22X,@FIELD HOURS PLUS LESS LESS USED REMAR		RPT10	23
		1INING ESTIMATED VALUE OF @<		RPT10	24
		WRITE%IO,202<		RPT10	25
	202	FORMAT%23X,@AVAILABLE CUSTOM IN CUSTOM OUT IN TABLE 9 FIELD HR		RPT10	26
		1OURS EXTRA FIELD TIME @<		RPT10	27
		WRITE%IO,203<		RPT10	28
	203	FORMAT%24X,@(HOURS) (HOURS) (HOURS) (HOURS) (HOURS)		RPT10	29
		1) (\$/HOUR)@<		RPT10	30
C		CALCULATE TOTALS		RPT10	31
		DO 100 I#1,5		RPT10	32
		TOT%I<#0.		RPT10	33
100		CONTINUE		RPT10	34
		DO 101 I#1,41		RPT10	35
		TOT%1<#TOT%1<&RHS%I<		RPT10	36
		TOT%4<#TOT%4<&DD%I<		RPT10	37
		TOT%5<#TOT%5<&DDD%I<		RPT10	38
101		CONTINUE		RPT10	39
108		CONTINUE		RPT10	40
		WRITE%IO,205<		RPT10	41
205		FORMAT%00 1.PREPARATION AND@/@ FALL PLANTING@<	JEF19	1	
206		FORMAT%3X,2A8,F11.0,28X,F7.0,6X,F6.0,10X,F8.2<	RPT10	43	
		DO 113 I#1,8	RPT10	44	
		WRITE%IO,206<%NAM2%I,K<,K#1,2<,RHS%I<,DD%I<,DDD%I<,SHAD%I<	RPT10	45	
113		CONTINUE	RPT10	46	
		DO 114 I#9,13	RPT10	47	
		J#I&2	RPT10	48	
		WRITE%IO,206<%NAM2%J,K<,K#1,2<,RHS%I<,DD%I<,DDD%I<,SHAD%I<	RPT10	49	
114		CONTINUE	RPT10	50	
		WRITE%IO,207<	RPT10	51	
207		FORMAT% 00 2.PLANTING @<	RPT10	52	
		DO 115 I#14,19	RPT10	53	
		J#I-11	RPT10	54	
		WRITE%IO,206<%NAM2%J,K<,K#1,2<,RHS%I<,DD%I<,DDD%I<,SHAD%I<	RPT10	55	
115		CONTINUE	RPT10	56	
		WRITE%IO,209<	RPT10	57	
209		FORMAT%00 3.POST PLANTING AND@/@ SUMMER PLANTING@<	JEF19	2	
		DO 116 I#20,27	RPT10	59	
		J#I-17	RPT10	60	
		WRITE%IO,206<%NAM2%J,K<,K#1,2<,RHS%I<,DD%I<,DDD%I<,SHAD%I<	RPT10	61	
116		CONTINUE	RPT10	62	
		WRITE%IO,211<	RPT10	63	
211		FORMAT%00 4.WHEAT HARVEST@<	RPT10	64	
		DWHT%4<#DWHT%4<&DWHT%2<	UPDAT1	11	
		WRITE%IO,213< %DWHT%I<,I#1, 6<	RPT10	65	
		TOT%2<#TOT%2<&RCOL%140,IRNK<	RPT10	66	
		TOT%3<#TOT%3<&RCOL%141,IRNK<	RPT10	67	
		TOT%4<#TOT%4<&DWHT%2<	UPDAT1	12	
213		FORMAT %3X,@J.JUNE14-JULY18@,2F12.0,F11.0,F12.0,F12.0,F18.2<	RPT10	68	
		WRITE%IO,220<	RPT10	69	
220		FORMAT%00 5.HARVESTING@<	RPT10	70	
230		FORMAT%3X,A8,A8,F11.0,F12.0,F11.0,F12.0,F12.0,F18.2<	RPT10	71	
250		FORMAT%26X,4%1H-<,8X,4%1H-<,8X,4%1H-<,8X,4%1H-<<	RPT10	72	
253		FORMAT%3X,@SILAGE@<	RPT10	73	
		IF %R%493<.EQ.0.0..AND.ACRES%IRNK,10<.EQ.0.0.< GO TO 118	JEF7	1	
		WRITE%IO,253<	RPT10	75	
		DO 117 I#28,29	RPT10	76	
		J#I-27	RPT10	77	

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101  FORMAT%20@,33X,@LABOR@,40X,@FULL TIME ESTIMATED VALUE@/23X,@FULL-TRPT11 20
      1 TIME HELD IN LABOR PART-TIME LABOR TOTAL LABOR LABOR OF RPT11 21
      2 EXTRA@< RPT11 22
102  FORMAT%6X,@TIME PERIOD AVAILABLE RESERVE USED AVAILABLE HRPT11 23
      2 IRED USED USED LABOR TIME@< RPT11 24
103  FORMAT%24X,@(HOURS) (HOURS) (HOURS) (HOURS) (HOURS) (HOURS) RPT11 25
      2 (HOURS) ($/HOUR)@< RPT11 26
104  FORMAT%3X,2A8,F11.0,F9.0,F8.0,2F9.0,F10.0,F11.0,F15.2< RPT11 27
105  FORMAT%24X,6%1H-<,3X,6%1H-<,2X,6%1H-<,3X,6%1H-<,3X,6%1H-<,4X,6%1H- RPT11 28
      2<,5X,6%1H-</12X,@TOTALS@,F12.0,F9.0,F8.0,2F9.0,F10.0,F11.0,F15.2< RPT11 29
106  FORMAT%24X,6%1H=<,3X,6%1H=<,2X,6%1H=<,3X,6%1H=<,3X,6%1H=<,4X,6%1H= RPT11 30
      2<,5X,6%1H=<< RPT11 31
107  FORMAT%3X,104%1H*<< RPT11 32
      DO 200 I#1,15 RPT11 33
      WRITE%IO,104<%NAM2%I,J<,J#1,2<,%TAB%I,J<,J#1,8< RPT11 34
200  CONTINUE RPT11 35
      WRITE%IO,105<%TAB%16,J<,J#1,7< RPT11 36
108  FORMAT%3X,95HPLEASE NOTE--ANY DIFFERENCE BETWEEN TOTAL LABOR USED RPT11 37
      1 AND FULL TIME LABOR EQUIVALENT USED MAY BE/16X,70HACCOUNTED FOR BY RPT11 38
      2 YOUR PART-TIME LABOR EFFICIENCY FACTOR (CELL NO. 459)< RPT11 39
      WRITE%IO,106< RPT11 40
      WRITE%IO,107< RPT11 41
      WRITE%IO,108< RPT11 42
      RETURN RPT11 43
      END RPT11 44
      SUBROUTINE RPT12 RPT12 1
      REAL*8 IDENT CHNG 10
      COMMON/INT1/R%600<,RSOL%116,2<,RCOL%186,2<,BCSOL%2,46,2<,HEAD%10<,JEF18 1
      1ACHR%3<,ACRES%2,11<,PROD%2,11<,PRICE%11<,SOL%2,16<,VC%2,12,9<, COMDI 2
      2AVCT%2,9<,UVCT%2,3<,FCT%2,4<,TCSTS%2<,PROFT%2<,AVC%2,8<,AVY%2,8<, COMDI 3
      3AVS%2,8<,AVRT%2,8<,AMDI%2,2<,COMBH%2,3<,TACR%2,3<,TCOMB%2<,RHS%41< COMDI 4
      4,AWORK%12,18<,BWORK%12,18<,CLPRP,SLPRP,WLPRP,DCPRP,CCLAB,SCLAB, COMDI 5
      5WCLAB,IPAGE,IOUT,INPT,IRNK,CTA%2,3,3<,BTA%2,3,3<,TCOMBI%2<,IO COMDI 6
      6,RSHAD%83,2<,NMAX,IDENT,CHLAB,SHLAB,WHLAB,SICLAB JEF27 1
      7,AWRK%6,18<,BWRK%6,18<,SWRK%6,12< JEF34 1
      COMMON /INT2/TACRE%3,6,4<,TPROD%2,6,4<,STACR%2,4<,STPRD%2,4<, COMMN 1
      1APRP%3,15<,PPLNT%10<,DD%41<,DDD%41<,SHAD%41<,TAB%16,8<,TABB%16,6< COMMN 2
      2,SPLNT%6<,WHAR,SHAR%2<,DCHAR JEF8 1
      3,TAB3%16,9< JEF34 1
      REAL*8 NAM1%30<,NAM2%15,2< RPT12 4
      EQUIVALENCE %NAM2%1,1<,%NAM1%1<< RPT12 12
      DATA NAM1 /8HA. MAR.1,8HB. APR. ,8HC. APR.2 RPT12 5
      1,8HD. MAY ,8HE. MAY 1,8HF. MAY 1,8HG. MAY 2 RPT12 6
      2,8HH. MAY 3,8HI. JUNE ,8HJ. JUNE1,8HK. SEP.1, RPT12 7
      3 8HL. SEP.2,8HM. OCT.1,8HN. NOV. ,8HO. NOV.2,8H5-APR.4 RPT12 8
      1,8H5-APR.25,8H6-MAY 2,8H3-MAY 9,8H0-MAY 16,8H7-MAY 23,8H4-MAY 30 RPT12 9
      5,8H1-JUNE 6,8H7-JUNE13,8H4-JULY18,8H3-SEP.26,8H7-OCT.17,8H8-NOV. 7 RPT12 10
      6,8H8-NOV.28,8H9-MAR.14/ JEE28 1
200  FORMAT%1H0,@ TABLE 12. PROJECTED USE OF AVAILABLE LABOR FOR CORN, RPT12 13
      1SOYBEANS,WHEAT,DOUBLE CROP SOYBEANS, AND SILAGE@< RPT12 14
201  FORMAT%1H0,22X,@LABOR FOR LABOR LABOR WHEAT CUSTOM COMB RPT12 15
      1INING FULL TIME@< RPT12 16
202  FORMAT%6X,@TIME PERIOD@,7X,@CORN AND FOR AND DOUBLE RPT12 17
      1PROVIDED USED LABOR@< RPT12 18
2025 FORMAT%25X,@SILAGE SOYBEANS CROP SOYBEANS@,21X,@RECONCILIATION RPT12 19
      1N@< RPT12 20
203  FORMAT%24X,@(HOURS) (HOURS) (HOURS) (HOURS) (HOURS) RPT12 21
      1 (HOURS)@< RPT12 22
204  FORMAT%3X,A10,A6,F11.0,F12.0,F13.0,F34.0< RPT12 23
205  FORMAT%23X,7%1H-<,5X,7%1H-<,6X,7%1H-<,6X,7%1H-<,2X,7%1H-<,5X,7%1H- RPT12 24

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208 WRITE%IO,258<
FORMAT%3X,@CORN--@/3X,@CORN-SOYBEAN COMBINE@<
DO 124 I#39,41
J#I-38
L#130&J
L#L-3
J#J&1
IF %R%489<< 1236,1236,1237
1236 DD%I<#DD%I<&RCOL%L,IRNK<
WRITE%IO,230<%NAM4%J,K<,K#1,2<,RHS%I<,RCOL%L,IRNK<,RCOL%L&46,IRNK<
1,DD%I<,DDD%I<,SHAD%I<
TOT%2<#TOT%2<&RCOL%L,IRNK<
TOT%3<#TOT%3<&RCOL%L&46,IRNK<
TOT%4<#TOT%4<&RCOL%L,IRNK<
GO TO 124
1237 CONTINUE
RC#0.
WRITE%IO,230<%NAM4%J,K<,K#1,2<,RHS%I<,RC,RCOL%L&46,IRNK<,DD%I<,DDD%I<,SHAD%I<
1%I<,SHAD%I<
TOT%3<#TOT%3<&RCOL%L&46,IRNK<
124 CONTINUE
125 WRITE%IO,250<
WRITE%IO,240<%TOT%I<,I#1,5<
240 FORMAT%11X,@TOTALS@,F13.0,F12.0,F11.0,F12.0,F12.0<
251 FORMAT%26X,4%1H=<,8X,4%1H=<,7X,4%1H=<,8X,4%1H=<,8X,4%1H=<<
WRITE%IO,251<
252 FORMAT%2X,100%1H*<<
WRITE%IO,252<
RETURN
END
SUBROUTINE RPT11
REAL*8 IDENT
COMMON/INT1/R%600<,RSOL%116,2<,RCOL%186,2<,BCSOL%2,46,2<,HEAD%10<,JEF18
1ACHR%3<,ACRES%2,11<,PROD%2,11<,PRICE%11<,SOL%2,16<,VC%2,12,9<, COMDI 2
2AVCT%2,9<,UVCT%2,3<,FCT%2,4<,TCSTS%2<,PROFT%2<,AVC%2,8<,AVY%2,8<, COMDI 3
3AVS%2,8<,AVRT%2,8<,AMDI%2,2<,COMBH%2,3<,TACR%2,3<,TCOMB%2<,RHS%41< COMDI 4
4,AWORK%12,18<,BWORK%12,18<,CLPRP,SLPRP,WLPRP,DCPRP,CCLAB,SCLAB, COMDI 5
5WCLAB,IPAGE,IOUT,INPT,IRNK,CTA%2,3,3<,BTA%2,3,3<,TCOMBI%2<,IO COMDI 6
6,RSHAD%83,2<,NMAX,IDENT,CHLAB,SHLAB,WHLAB,SICLAB JEF27 1
7,AWRK%6,18<,BWRK%6,18<,SWRK%6,12< JEF34 1
COMMON /INT2/TACRE%3,6,4<,TPROD%2,6,4<,STACR%2,4<,STPRD%2,4<, COMMN 1
1APRP%3,15<,PPLNT%10<,DD%41<,DDD%41<,SHAD%41<,TAB%16,8<,TABB%16,6< COMMN 2
2,SPLNT%6<,WHAR,SHAR%2<,DCHAR JEF8 1
3,TAB3%16,9< JEF34 1
REAL*8 NAM1%30<,NAM2%15,2<
EQUIVALENCE %NAM2%1,1<,NAM1%1<<
DATA NAM1 /8HA. MAR.1,8HB. APR. ,8HC. APR.2
1,8HD. MAY ,8HE. MAY 1,8HF. MAY 1,8HG. MAY 2
2,8HH. MAY 3,8HI. JUNE ,8HJ. JUNE1,8HK. SEP.1,
3 8HL. SEP.2,8HM. OCT.1,8HN. NOV. ,8HO. NOV.2,8H5-APR.4
1,8H5-APR.25,8H6-MAY 2,8H3-MAY 9,8H0-MAY 16,8H7-MAY 23,8H4-MAY 30RPT11 9
5,8H1-JUNE 6,8H7-JUNE13,8H4-JULY18,8H3-SEP.26,8H7-OCT.17,8H8-NOV. 7RPT11 10
6,8H8-NOV.28,8H9-MAR.14/
IPAGE # IPAGE&1
WRITE%IO,100< IPAGE
WRITE%IO,101<
WRITE%IO,102<
WRITE%IO,103<
100 FORMAT%1H1,68X,27H0.S.U. CROPPING BUDGET PAGE,I4/61H0 TABLE 11.SURPT11 18
IMMARY OF PROJECTED PROFILE OF LABOR UTILIZATION< RPT11 19

```

	RB%40<#R%57<	RPT13 32
	RB%41<#R%53<	RPT13 33
	RB%42<#R%54<	RPT13 34
	RB%43<#R%58<	RPT13 35
	RB%44<#R%55<	RPT13 36
	RB%45<#R%56<	RPT13 37
	RB%46<#R%516<	RPT13 38
	RB%50<#R%528<	RPT13 39
	DO 101 LP#1,7	RPT13 40
102	GO TO %102,103,104,105,106,107,108<,LP	RPT13 41
	J#43	RPT13 42
	IBEG#45	RPT13 43
	GO TO 109	RPT13 44
103	J#44	RPT13 45
	IBEG#65	RPT13 46
	GO TO 109	RPT13 47
104	J#45	RPT13 48
	IBEG#85	RPT13 49
	GO TO 109	RPT13 50
105	J#46	RPT13 51
	IBEG#105	RPT13 52
	GO TO 109	RPT13 53
106	J#47	RPT13 54
	IBEG#125	RPT13 55
	GO TO 109	RPT13 56
107	J#48	RPT13 57
	IBEG#145	RPT13 58
	GO TO 109	RPT13 59
108	J#49	RPT13 60
	IBEG#165	RPT13 61
109	DO 110 ILP#1,3	RPT13 62
	J#J&7	RPT13 63
	K#J	RPT13 64
	IBEG#IBEG&6	RPT13 65
	IEND#IBEG&5	RPT13 66
	DO 1100 I#IBEG,IEND	RPT13 67
	K#K&21	RPT13 68
	RB%I<#R%K<	RPT13 69
1100	CONTINUE	RPT13 70
110	CONTINUE	RPT13 71
101	CONTINUE	RPT13 72
	RB%200<#R%531<	RPT13 73
	DO 111 LP#1,6	RPT13 74
	GO TO %112,113,114,115,116,117<,LP	RPT13 75
112	J#173	RPT13 76
	IBEG#195	RPT13 77
	GO TO 118	RPT13 78
113	J#178	RPT13 79
	IBEG#215	RPT13 80
	GO TO 118	RPT13 81
114	J#175	RPT13 82
	IBEG#235	RPT13 83
	GO TO 118	RPT13 84
115	J#174	RPT13 85
	IBEG#255	RPT13 86
	GO TO 118	RPT13 87
116	J#176	RPT13 88
	IBEG#275	RPT13 89
	GO TO 118	RPT13 90
117	J#177	RPT13 91

```

206 1</12X,6HTOTALS,2F12.0,2F13.0,F9.0,F12.0,7%1H=<,5X,7%1H=<,6X,7%1H=<,8X,7%1H=<,2X,7%1H=<,5X,7%1H=
1<<
207 FORMAT%3X,94%1H* <<
208 FORMAT%59H0 PLEASE NOTE--AN * INDICATES THE AMOUNT WAS LESS THAN
1ONE<
209 FORMAT%3X,A8,A8,F11.0,F12.0,2F13.0,F9.0,F12.0<
WRITE%IO,200<
WRITE%IO,201<
WRITE%IO,202<
WRITE%IO,2025<
WRITE%IO,203<
DO 100 I#1,15
WRITE%IO,209< %NAM2%I,J<,J#1,2<,%TABB%I,J<,J#1,6<
100 CONTINUE
WRITE%IO,205< %TABB%16,J<,J#1,6<
WRITE%IO,206<
WRITE%IO,207<
WRITE%IO,208<
RETURN
END
SUBROUTINE RPT13
REAL*8 IDENT
COMMON/INT1/R%600<,RSOL%116,2<,RCOL%186,2<,BCSOL%2,46,2<,HEAD%10<,JEF18
1ACHR%3<,ACRES%2,11<,PROD%2,11<,PRICE%11<,SOL%2,16<,VC%2,12,9<,
2AVCT%2,9<,UVCT%2,3<,FCT%2,4<,TCSTS%2<,PROFT%2<,AVC%2,8<,AVY%2,8<,
3AVS%2,8<,AVRT%2,8<,AMDI%2,2<,COMBH%2,3<,TACR%2,3<,TCOMB%2<,RHS%41<
4,AWORK%12,18<,BWORK%12,18<,CLPRP,SLPRP,WLPRP,DCPRP,CCLAB,SCLAB,
5WCLAB,IPAGE,IOUT,INPT,IRNK,CTA%2,3,3<,BTA%2,3,3<,TCOMBI%2<,IO
6,RSHAD%83,2<,NMAX,IDENT,CHLAB,SHLAB,SICLAB
7,AWRK%6,18<,BWRK%6,18<,SWRK%6,12<
DIMENSION RB%657<
IO#6
DO 99 I#1,657
RB%I<#0.
99 CONTINUE
RB%10<#R%28<
RB%11<#R%29<
RB%12<#R%561<
RB%13<#R%562<
RB%14<#R%32<
RB%15<#R%33<
RB%16<#R%30<
RB%17<#R%31<
J#1
DO 100 I#18,21
J#J&1
RB%I<#R%J<
100 CONTINUE
RB%22<#R%550<
RB%30<#R%34</1000.
RB%31<#R%59<
RB%32<#R%560<
RB%33<#R%61<
RB%34<#R%62<
RB%35<#R%63<
RB%36<#R%60<
RB%37<#R%554<
RB%38<#R%64<
RB%39<#R%553<

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```

RPT12 25
RPT12 26
RPT12 27
RPT12 28
RPT12 29
RPT12 30
RPT12 31
RPT12 32
RPT12 33
RPT12 34
RPT12 35
RPT12 36
RPT12 37
RPT12 38
RPT12 39
RPT12 40
RPT12 41
RPT12 42
RPT12 43
RPT12 44
RPT12 45
RPT13 1
CHNG 10
JEF18 1
COMDI 2
COMDI 3
COMDI 4
COMDI 5
COMDI 6
JEF27 1
JEF34 1
RPT13 3
RPT13 4
RPT13 5
RPT13 6
RPT13 7
RPT13 8
RPT13 9
RPT13 10
RPT13 11
RPT13 12
RPT13 13
RPT13 14
RPT13 15
RPT13 16
RPT13 17
RPT13 18
RPT13 19
RPT13 20
RPT13 21
JEF10 1
RPT13 23
RPT13 24
RPT13 25
RPT13 26
RPT13 27
RPT13 28
RPT13 29
RPT13 30
RPT13 31

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123	CONTINUE	RPT13152
	J#345	RPT13153
	DO 131 I#376,381	RPT13154
	J#J&1	RPT13155
	RB%I<#R%J<	RPT13156
131	CONTINUE	RPT13157
	J#405	RPT13158
	DO 132 I#412,414	RPT13159
	J#J&1	RPT13160
	RB%I<#R%J<	RPT13161
132	CONTINUE	RPT13162
	RB%415<#R%341<	RPT13163
	RB%416<#R%400<	RPT13164
	DO 133 LP#1,6	RPT13165
	GO TO %134,135,136,137,138,139<,LP	RPT13166
134	J#315	RPT13167
	IBEG#417	RPT13168
	GO TO 140	RPT13169
135	J#335	RPT13170
	IBEG#422	RPT13171
	GO TO 140	RPT13172
136	J#400	RPT13173
	IBEG#430	RPT13174
	GO TO 140	RPT13175
137	J#384	RPT13176
	IBEG#435	RPT13177
	GO TO 140	RPT13178
138	J#389	RPT13179
	IBEG#440	RPT13180
	GO TO 140	RPT13181
139	J#394	RPT13182
	IBEG#445	RPT13183
140	IEND#IBEG&4	RPT13184
	DO 141 I#IBEG,IEND	RPT13185
	J#J&1	RPT13186
	RB%I<#R%J<	RPT13187
141	CONTINUE	RPT13188
133	CONTINUE	RPT13189
	DO 142 LP#1,2	RPT13190
	GO TO%143,144<,LP	RPT13191
143	J#410	RPT13192
	IBEG#450	RPT13193
	IEND#451	RPT13194
	GO TO 145	RPT13195
144	J#485	RPT13196
	IBEG#453	RPT13197
	IEND#455	RPT13198
145	DO 146 I#IBEG,IEND	RPT13199
	J#J&1	RPT13200
	RB%I<#R%J<	RPT13201
146	CONTINUE	RPT13202
142	CONTINUE	RPT13203
	RB%452<#R%558<	RPT13204
	J#66	RPT13205
	DO 147 I#456,459	RPT13206
	J#J&1	RPT13207
	RB%I<#R%J<	RPT13208
147	CONTINUE	RPT13209
	J#321	RPT13210
	DO 1470 I#427,429	RPT13211

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118 IBEG#295
DO 119 ILP#1,3
J#J&6
K#J
IBEG#IBEG&6
IEND#IBEG&5
DO 120 I#IBEG,IEND
K#K&18
120 RB%I<#R%K<
119 CONTINUE
111 CONTINUE
RB%319<#R%563<
RB%320<#R%551<
RB%321<#R%522<
RB%322<#R%523<
RB%323<#R%519<
RB%324<#R%518<
RB%325<#R%520<
RB%326<#R%521<
RB%327<#R%552<
RB%328<#R%535<
RB%329<#R%536<
RB%330<#R%538<
RB%331<#R%537<
RB%333<#R%540<
RB%332<#R%539<
RB%334<#R%557<
J#7
DO 122 I#335,342
J#J&1
RB%I<#R%J<
122 CONTINUE
RB%350<#R%305<
RB%351<#R%325<
RB%352<#R%345<
RB%353<#R%352<
RB%354<#R%363<
RB%355<#R%374<
DO 123 LP#1,5
GO TO%124,125,126,127,128<,LP
124 J#305
IBEG#356
GO TO 129
125 J#325
IBEG#366
GO TO 129
126 J#352
IBEG#382
GO TO 129
127 J#363
IBEG#392
GO TO 129
128 J#374
IBEG#402
129 IEND#IBEG&9
DO 130 I#IBEG,IEND
J#J&1
RB%I<#R%J<
130 CONTINUE

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RPT13 92
RPT13 93
RPT13 94
RPT13 95
RPT13 96
RPT13 97
RPT13 98
RPT13 99
RPT13100
RPT13101
RPT13102
RPT13103
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RPT13146
RPT13147
RPT13148
RPT13149
RPT13150
RPT13151

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168 1#I&4
162 RB%I<#R%J<
CONTINUE
CONTINUE
DO 169 LP#1,3
GO TO %170,171,172<,LP
170 I#557
IBEG#431
GO TO 173
171 I#558
IBEG#449
GO TO 173
172 I#559
IBEG#481
173 IEND#IBEG&3
DO 174 J#IBEG,IEND
I#I&3
RB%I<#R%J<
174 CONTINUE
169 CONTINUE
DO 175 LP#1,3
GO TO %176,177,178<,LP
176 I#569
IBEG#541
GO TO 179
177 I#570
IBEG#544
GO TO 179
178 I#571
IBEG#547
179 IEND#IBEG&2
DO 180 J#IBEG,IEND
I#I&3
RB%I<#R%J<
180 CONTINUE
175 CONTINUE
RB%610<#R%489<
RB%613<#R%490<
RB%616<#R%491<
RB%621<#R%492<
RB%624<#R%493<
RB%611<#R%494<
RB%617<#R%495<
RB%612<#R%497<
RB%618<#R%498<
RB%614<#R%500<
RB%619<#R%501<
RB%622<#R%502<
RB%615<#R%505<
RB%620<#R%506<
RB%623<#R%507<
RB%625<#R%510<
RB%626<#R%496<
RB%627<#R%499<
RB%628<#R%503<
RB%629<#R%508<
RB%630<#R%504<
RB%631<#R%509<
RB%632<#R%511<
RB%640<#R%47<

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RPT13272
RPT13273
RPT13274
RPT13275
RPT13276
RPT13277
RPT13278
RPT13279
RPT13280
RPT13281
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RPT13323
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RPT13326
RPT13327
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RPT13329
RPT13330
RPT13331

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1470 J#J&1
      RB%I<#R%J<
      CONTINUE
      DO 148 LP#1,4
149   GO TO %149,150,151,152<,LP
      I#496
      IBEG#417
      GO TO 153
150   I#497
      IBEG#435
      GO TO 153
151   I#498
      IBEG#453
      GO TO 153
152   I#499
      IBEG#467
153   IEND#IBEG&9
      DO 154 J#IBEG,IEND
      I#I&4
      RB%I<#R%J<
154   CONTINUE
148   CONTINUE
      RB%540<#R%413<
      RB%541<#R%414<
      RB%550<#R%415<
      RB%551<#R%416<
      DO 155 LP#1,4
      GO TO %156,157,158,159<,LP
156   I#538
      IBEG#427
      GO TO 160
157   I#539
      IBEG#445
      GO TO 160
158   I#540
      IBEG#463
      GO TO 160
159   I#541
      IBEG#477
160   IEND#IBEG&1
      DO 161 J#IBEG,IEND
      I#I&4
      RB%I<#R%J<
161   CONTINUE
155   CONTINUE
      DO 162 LP#1,4
      GO TO %163,164,165,166<,LP
163   I#548
      IBEG#429
      GO TO 167
164   I#549
      IBEG#447
      GO TO 167
165   I#550
      IBEG#465
      GO TO 167
166   I#551
      IBEG#479
167   IEND#IBEG&1
      DO 168 J#IBEG,IEND

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RPT13212
RPT13213
RPT13214
RPT13215
RPT13216
RPT13217
RPT13218
RPT13219
RPT13220
RPT13221
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RPT13263
RPT13264
RPT13265
RPT13266
RPT13267
RPT13268
RPT13269
RPT13270
RPT13271

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48H1-JUNE 6,8H7-JUNE13,8H4-JULY18,8H3-SEP.26,8H7-OCT.17,8H8-NOV. 7,RPT14 10
58H8-NOV.28,8H9-MAR.14/ RPT14 11
200 FORMAT%1H1,94X,@0.S.U. CROPPING BUDGET PAGE@,I3/@0 TABLE 13. PROJER RPT14 12
1CTED TRACTOR UTILIZATION FOR CORN, SOYBEANS, WHEAT, D.C. SOYBEANS RPT14 13
2AND SILAGE@/@0@,19X,@TRACTOR TRACTOR USAGE TRACTOR USAGE TRACTOR RPT14 14
3USAGE CUSTOM TRACTOR TOTAL TRACTOR REMAINING ESTIMATED VALUE@/ RPT14 15
421X,@HOURS CORN AND@,9X,@FOR@,8X,@WHEAT AND@,7X,@HOURS@,10X, RPT14 16
5@HOURS TRACTOR DE EXTRA@/@ TIME PERIOD AVAILABLE RPT14 17
6 SILAGE SOYBEANS D.C. SOYBEANS PROVIDED USED USED@, RPT14 18
7 8X,@HOURS TRACTOR TIME@/32X,@(HOURS)@,7X,@(HOURS)@,7X,@(HOURS) RPT14 19
8@,46X,@($/HOUR)@/1H0< RPT14 20
201 FORMAT%2X,2A8,F8.0,F11.0,F14.0,F44.0,F12.0,F14.2< RPT14 21
202 FORMAT%2X,2A8,F8.0,F11.0,2F14.0,F30.0,F12.0,F14.2< RPT14 22
203 FORMAT%21X,5%1H-<,4X,7%1H-<,7X,7%1H-<,7X,7%1H-<,4X,7%1H-<,4X, RPT14 23
A5%1H-<,5X,5%1H-<,7X,5%1H-</12X,6HTOTALS,F8.0,F11.0,2F14.0,F30.0, RPT14 24
BF12.0 /21X,5%1H=<,4X,7%1H=<,7X,7%1H=<,7X,7%1H=<,4X,7%1H=<,4X, RPT14 25
C5%1H=<,5X,5%1H=<,7X,5%1H=<< RPT14 26
IPAGE#IPAGE&1 RPT14 27
WRITE%IO,200<IPAGE RPT14 28
DD 100 I#3,8 RPT14 29
WRITE%IO,201< %NAM2%I,J<,J#1,2<,%TAB3%I,J<,J#1,3<,%TAB3%I,J<,J#7,9RPT14 30
* RPT14 31
100 CONTINUE RPT14 32
DD 101 I#11,14 RPT14 33
WRITE%IO,202<%NAM2%I,J<,J#1,2<,%TAB3%I,J<,J#1,4<,%TAB3%I,J<,J#7,9<RPT14 34
101 CONTINUE RPT14 35
WRITE%IO,203<%TAB3%16,J<,J#1,4<,%TAB3%16,J<,J#7,8< RPT14 36
RETURN RPT14 37
END RPT14 38

```

```

/*
//LKED.SYSLMOD DD DSN=UKU.@AECC01.LOAD,UNIT=3330,
// VOL=REF=*.S1.LKED.SYSLMOD,DISP=OLD
//LKED.SYSIN DD *
NAME B91(R)
/*
//SM4 EXEC PGM=OEHMOVE,TIME=(,30)
//STEPLIB DD DSN=SYS1.JOBLIB,DISP=SHR
//SYSPRINT DD SYSOUT=A
//DISK DD UNIT=3330,VOL=SER=IRCC77,DISP=OLD
//TAPE DD UNIT=TAPE9,VOL=SER=CFP01,DISP=OLD
//SYSUT1 DD UNIT=SYSDA,SPACE=(CYL,(1,1))
//SYSIN DD *
COPY PDS=UKU.@AECC01.LOAD,FROMDD=DISK,FROM=3330=IRCC77,
I0DD=TAPE,I0=TAPE9=(CFP01,1)
/*
//

```

X

181

182

1

2

183

184

3

RB%641<#R%48<
RB%642<#R%555<
RB%643<#R%556<
RB%644<#R%45<
RB%645<#R%559<
RB%646<#R%46<
RB%647<#R%49<
RB%648<#R%50<
RB%650<#R%524<

J#523

DO 181 I#651,653

J#J&3

RB%I<#R%J<

CONTINUE

J#524

DO 182 I#655,657

J#J&3

RB%I<#R%J<

CONTINUE

RB%654<#R%525<

RB%49<#R%564<

RB%199<#R%565<

WRITE%IO,1< IDENT,%HEAD%I<,I#1,10<

FORMAT%a1a,A7,a @ ,10A4/20CELL +0a,5X,a+1a,5X,a+2a,5X,a+3a,6X,a+4

1a,5X,a+5a,6X,a+6a,6X,a+7a,6X,a+8a,6X,a+9a<

DO 183 I#10,459,10

IEND#I&9

IF %IEND.GT.459< IEND#459

WRITE%IO,2< I,%RB%J<,J#I,IEND<

FORMAT%I4,3F7.2,7F8.2<

CONTINUE

DO 184 I#500,649,10

IEND#I&9

IF %IEND.GT.649< IEND#649

WRITE%IO,2< I,%RB%J<,J#I,IEND<

CONTINUE

WRITE%IO,3< %RB%I<,I#650,657<

FORMAT%4H 650,F7.0,2F7.2,7F8.2<

RETURN

END

SUBROUTINE RPT14

REAL*8 IDENT

COMMON/INT1/R%600<,RSOL%116,2<,RCOL%186,2<,BCSOL%2,46,2<,HEAD%10<,

1ACHR%3<,ACRES%2,11<,PROD%2,11<,PRICE%11<,SOL%2,16<,VC%2,12,9<,

2AVCT%2,9<,UVCT%2,3<,FCT%2,4<,TCSTS%2<,PROFT%2<,AVC%2,8<,AVY%2,8<,

3AVS%2,8<,AVRT%2,8<,AMO%2,2<,COMBH%2,3<,TACR%2,3<,TCOMB%2<,RHS%41<

4,AWRK%12,18<,BWRK%12,18<,CLPRP,SLPRP,WLPRP,DCPRP,CCLAB,SCLAB,

5HLLAB,IPAGE,IQUT,INPT,IRNK,CTA%2,3,3<,BIA%2,3,3<,TCOMBI%2<,10

6,RSHAD%83,2<,NMAX,IDENT,CHLAB,SHLAB,WHLAB,SICLAB

7,AWRK%6,18<,BWRK%6,18<,SWRK%6,12<

COMMON /INT2/TACRE%3,6,4<,TPROD%2,6,4<,STACR%2,4<,STPRD%2,4<,

1APRP%3,15<,PPLNT%10<,DDD%41<,SHAD%41<,TAB%16,8<,TABB%16,6<

2,SPLNT%6<,WHAR,SHAR%2<,DCHAR

3,TAB3%16,9<

REAL*8 NAM1%30<,NAM2%15,2<

EQUIVALENCE%NAM2%1,1<,NAM1%1<

DATA NAM1 /8HA. MAR.1,8HB. APR. ,8HC. APR.2,8HD. MAY ,

18HE. MAY 1,8HF. MAY 1,8HG. MAY 2,8HH. MAY 3,8HI. JUNE ,8HJ. JUNE1,

28HK. SEP.1,8HL. SEP.2,8HM. OCT.1,8HN. NOV. ,8HO. NOV.2,8H5-APR. 4,

38H5-APR.25,8H6-MAY 2,8H3-MAY 9,8H0-MAY 16,8H7-MAY 23,8H4-MAY 30,RPT14

RPT13332

RPT13333

RPT13334

RPT13335

RPT13336

RPT13337

RPT13338

RPT13339

RPT13340

RPT13341

RPT13342

RPT13343

RPT13344

RPT13345

RPT13346

RPT13347

RPT13348

RPT13349

RPT13350

RPT13351

JEF27 1

JEF27 2

JEF10 2

CHNG 20

CHNG 30

JEF15 1

JEF9 4

JEF15 2

JEF9 6

JEF9 7

JEF9 8

JEF15 3

JEF15 4

JEF15 5

JEF15 6

JEF15 7

JEF15 8

JEF16 1

RPT13357

RPT13358

RPT14 1

VIVDM 2

JEF18 1

COMDI 2

COMDI 3

COMDI 4

COMDI 5

COMDI 6

JEF27 1

JEF34 1

COMMON 1

COMMON 2

JEF8 1

JEF34 1

RPT14 5

RPT14 6

RPT14 7

RPT14 8

RPT14 9